

User's Manual

750Mbps 802.11ac Wireless Broadband Router

▶ WDRT-750AC



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Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:



1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio technician for help.

FCC Caution:

To assure continued compliance, (example-use only shielded interface cables when connecting to computer or peripheral devices) any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the Following two conditions:

- (1) This device may not cause harmful interference
- (2) This Device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 1999/5/CE OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF 9 March 1999 on radio equipment and telecommunication terminal Equipment and the mutual recognition of their conformity (R&TTE).

The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

National Restrictions

This device is intended for home and office use in all EU countries (and other countries following the EU directive 1999/5/EC) without any limitation except for the countries mentioned below:

Country	Restriction	Reason/remark
Bulgaria	None	General authorization required for outdoor use and public service
France	Outdoor use limited to 10 mW e.i.r.p. within the band 2454-2483.5 MHz	Military Radiolocation use. Refarming of the 2.4 GHz band has been ongoing in recent years to allow current relaxed regulation. Full implementation planned 2012
Italy	None	If used outside of own premises, general authorization is required
Luxembourg	None	General authorization required for network and service supply(not for spectrum)
Norway	Implemented	This subsection does not apply for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Federation	None	Only for indoor applications

Note: Please don't use the product outdoors in France.

WEEE regulation



To avoid the potential effects on the environment and human health as a result of the presence of hazardous substances in electrical and electronic equipment, end users of electrical and electronic equipment should understand the meaning of the crossed-out wheeled bin symbol. Do not dispose of WEEE as unsorted municipal waste and have to collect such WEEE separately.

Revision

User Manual for PLANET 750Mbps 802.11ac Wireless Broadband Router

Model: WDRT-750AC

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Part No. EM-WDRT-750AC_v1.0 (**2081-E50310-000**)

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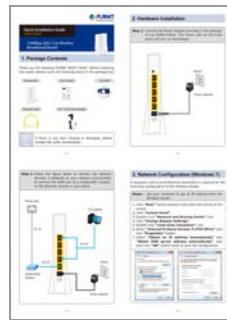
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Chapter 1. Product Introduction

1.1 Package Contents

Thank you for choosing PLANET WDRT-750AC. Before installing the router, please verify the contents inside the package box.

WDRT-750AC Wireless**Router****Quick Installation Guide****CD-ROM**

(User Manual included)

Power Adapter

12V/0.5A DC output
100~240V AC input

Ethernet Cable

RJ-45 Cable



If there is any item missing or damaged, please contact the seller immediately.

1.2 Product Description

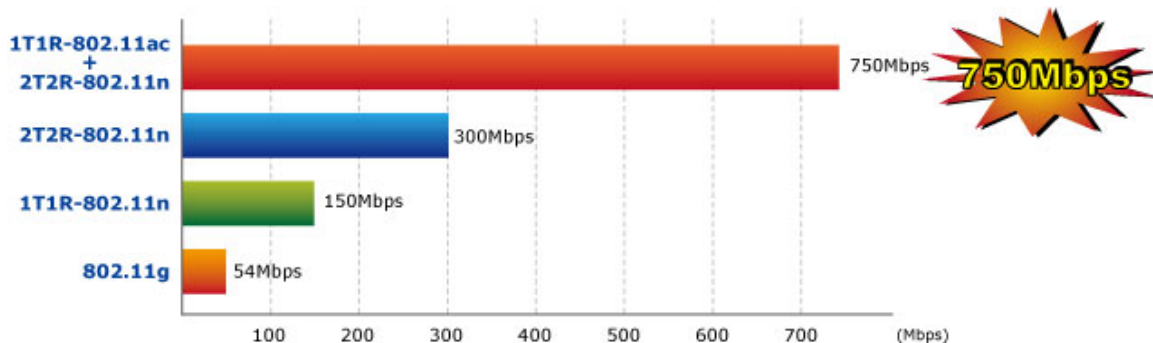
2.4G & 5G Simultaneous Dual Band Wireless Connectivity

Since there are more and more wireless applications and electric devices using the radio frequency of 2.4GHz, the wireless channel of 2.4GHz has been already too crowded for clients to enjoy the high-speed wireless connection. In order to avoid the wireless interference between each other, PLANET WDRT-750AC provides users with the radio frequency of 5GHz for watching HD videos or playing online games additionally. At the same time, it enables other users to surf the Internet via the original radio frequency of 2.4 GHz. The WDRT-750AC is just like 2 totally independent Access Points in one device for you.



Multiple Network Technologies for Incredibly 750Mbps High-Speed Connection

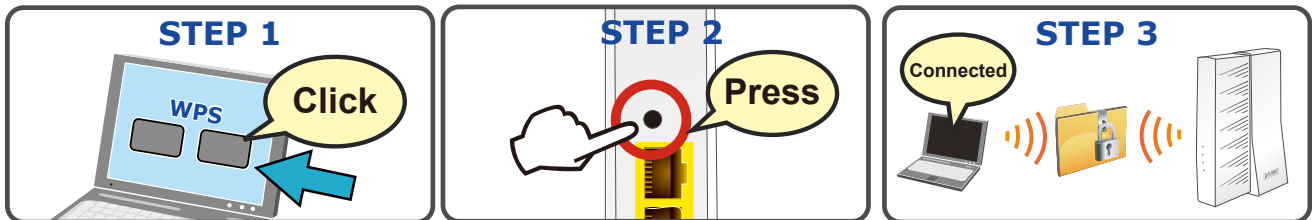
The WDRT-750AC supports IEEE 802.11a/b/g/n/ac Dual Band standard technology, therefore it can provide the wireless speed up to 300 + 4330Mbps which is 12 times faster than that of the traditional 11g Access Point. Compared with general wireless routers, the WDRT-750AC offers faster transmission speed and more convenient method to enable or disable wireless signal.



Full Support of Wireless Security Encryption

To secure the wireless communication, the WDRT-750AC supports up-to-date encryption technology, WPA / WPA2 and WPA-PSK / WPA2-PSK with TKIP/AES. The WDRT-750AC supports Wi-Fi Protected Setup (WPS) configuration with PBC/PIN methods to simplify the wireless security settings. By just clicking the WPS button, the secure connection between the wireless AP and wireless client will be built immediately.

WPS (Wi-Fi Protected Setup) Quick & Easy Wireless Connection

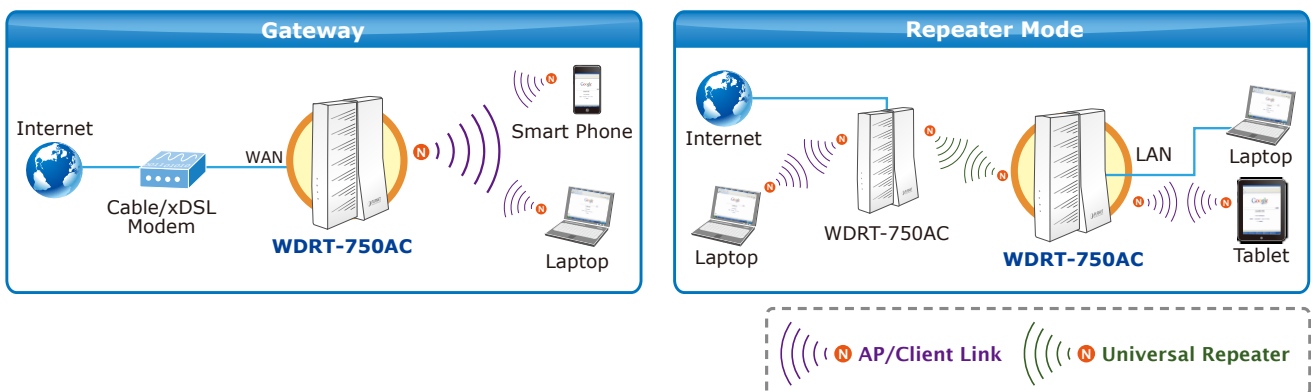


Powerful Firewall and Complete Access Control Functions

The WDRT-750AC supports NAT function allowing multiple users to access Internet via a single legal IP. It also provides Virtual Server for the specific LAN PC to act as an application server and offer certain service to the clients on the Internet. In addition, the powerful firewall protects your Intranet clients from unauthorized accesses and various kinds of DoS attacks from the Internet. In the aspect of firewall, the WDRT-750AC supplies IP-based and MAC-based access control to prevent possible hackers attack.

Easy Setup for Multiple Wireless Modes

The WDRT-750AC supports multiple wireless modes including AP and Repeater for different network applications. Furthermore, with the built-in Quick Setup function, users can configure the WDRT-750AC easily and quickly through a couple of simple steps. It is so easy to apply the WDRT-750AC to the existing wired network. The WDRT-750AC definitely provides a total network solution for the home and the SOHO users.



1.3 Product Features

- **IEEE Compliant Wireless LAN & Wired LAN**
 - Compliant with IEEE 802.11a/b/g/n/ac dual-band (2.4G&5G) wireless technology capable up to 300+433Mbps data rate
 - Auto MDI/MDI-X supported
- **Fixed-network Broadband Router**
 - Supported WAN connection types: DHCP / Static IP / PPPoE / PPTP / L2TP
 - Supports Dynamic DNS and DHCP Server
- **Secure Network Connection**
 - Supports Wi-Fi Protected Setup (WPS)
 - Advanced security: 64/128-bit WEP, WPA/WPA2 and WPA-PSK/WPA2-PSK (TKIP/AES encryption)
 - Supports NAT firewall, IP / Port / URL-based access control and MAC address Filtering
 - Supports Dual-SSID to allow users to access different networks through a single AP
- **Advanced Networking Function for Specific Application**
 - Supports Bandwidth Control (QoS) based on different local IP addresses
 - Supports NTP, Virtual Server, UPnP and DMZ for various networking applications
- **Easy Installation & Management**
 - User-friendly Web-based UI with On-line Help
 - Remote Management allows configuration from a remote site
 - System status monitoring includes DHCP Client List and System Log

1.4 Product Specifications

Product	WDRT-750AC 750Mbps 802.11ac Wireless Broadband Router	
Hardware Specifications		
Interface	WAN Port:	1 x 10/100Mbps Auto MDI/MDI-X RJ45 port
	LAN Port:	4 x 10/100Mbps Auto MDI/MDI-X RJ45 ports (LAN1~4)
Antenna	Gain:	2.4GHz : 2 x 2.5dBi PCB Antenna 5GHz: 1 x 3.8dBi Internal Antenna
Reset / WPS Button	Reset / WPS button at rear panel ■ Press for about 10 seconds to reset the device to factory default. ■ Press for 1 second to activate WPS function.	
LED Indicators	PWR x 1 WLAN (2.4G & 5G) x 2 WAN x 1	
Material	Plastic	
Dimensions (WxDxH)	163 x 100 x 43 mm (W x D x H)	
Weight	146g	
Power Requirementst	12V DC, 0.5A	
Power Consumption	Maximum of 4 watts	
Wireless interface Specifications		
Standard	Compliant with IEEE 802.11a/b/g/n/ac	
Frequency Band	Simultaneous 2.4 GHz and 5 GHz 2.4G: 2.412-2.484GHz 5G: 5.180-5.240GHz, 5260-5320GHz, 5.745-5.825GHz	
RF Power (Intentional Radiator)	2.4GHz: 11b: 17±1dBm 11g: 14±1.5dBm 11n: 14±1.5dBm	5GHz: 11a: 14±1.5dBm 11n: 14±1.5dBm 11ac: 13±1.5dBm
Wireless Management Features		
Wireless Modes	■ Gateway ■ Bridge	
Encryption Security	■ WEP (64/128-bit) ■ WPA-PSK (TKIP) / WPA2-PSK (AES) ■ WPA (TKIP) / WPA2 (AES)	
Wireless Security	Provides Wireless LAN ACL (Access Control List) filtering	
	Wireless MAC address filtering	
	Support WPS (WIFI Protected Setup)	
Wireless Advanced	Support Dual-SSID (2.4G & 5G)	
Max. Supported	Wire: 254	

Clients	Wireless: 32
Router Features	
Internet Connection Type	Shares data and Internet access for users, supporting the following internet accesses: ■ DHCP ■ Static IP ■ PPPoE ■ PPTP ■ L2TP
Firewall	NAT firewall
	Built-in NAT server which supports Virtual Server and DMZ
	Built-in firewall with IP address filtering, port filtering, URL filtering, and MAC address filtering
LAN	Built-in DHCP server supporting static IP address distributing
	Support UPnP, Dynamic DNS
	Support Packets Statistics
	IP-based Bandwidth Control
	Session Number: Max. 1500
System Management	Web-based (HTTP) management interface
	Remote management (WAN Access Control)
	SNTP time synchronize
	System Log
OS Compatibility	Windows 7 Windows Vista Windows XP Mac OS X 10.4 and higher

Chapter 2. Hardware Installation

Please follow the instructions below to connect WDRT-750AC to the existing network devices and your computers.

2.1 Hardware Description

- **Dimensions:** 163 x 100 x 43mm (W x D x H)
- **Diagram :**



Figure 2-1



Figure 2-2

2.1.1 Front Panel

The front panel provides a simple interface monitoring the router. Figure 2-3 shows the front panel of the WDRT-750AC.



Figure 2-3 WDRT-750AC Front Panel

2.1.2 LED Indications

The LEDs on the front panel indicate instant status of port links, wireless data activity and system power, and help monitor and troubleshoot when needed. Figure 2-3 and Table 2-1 show the LED indications of the Wireless Router.

LED (Left to Right)	COLOR	STATE	FUNCTION
PWR	Green	On	Device power on
		Off	Device power off
5G	Green	On	The 5GHz WiFi is activated
		Flash	Device is transmitting data wirelessly over 5GHz
		Off	The 5GHz WiFi is disabled
2.4G	Green	On	The 2.4GHz WiFi is activated
		Flash	Device is transmitting data wirelessly over 2.4GHz
		Off	The 2.4GHz WiFi is disabled
WAN	Green	On	Link is established
		Flash	Packets are transmitting or receiving
		Off	WAN port is not connected

Table 2-1 LED Indications

2.1.3 Rear Panel

The rear panel provides the physical connectors connected to the power adapter and any other network device.

Figure 2-4 shows the rear panel of the WDRT-750AC.

Rear Panel

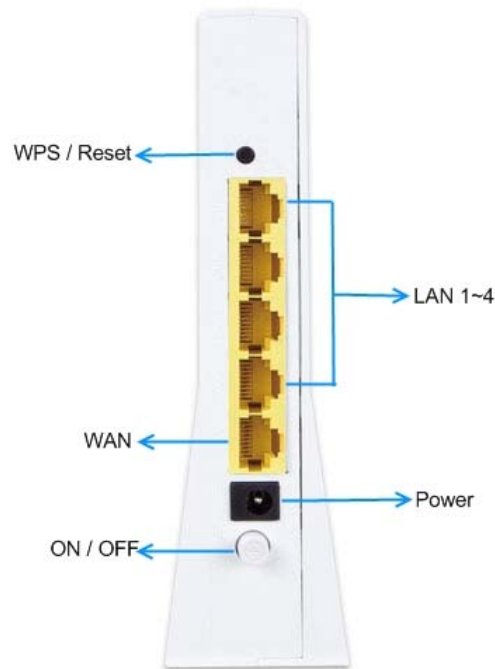


Figure 2-4 Rear Panel of the WDRT-750AC

Interface	Description
WPS/Reset	- Press the Reset button gently for 1 second and then release it. The system starts WPS connection. - Press the Reset button gently for 10 seconds and then release it. The system restores to the factory default settings.
WAN	Connect to the Cable/xDSL Modem, or the Ethernet
LAN1-4	Connect to the user's PC or network devices
Power	Connect to the power adapter provided in the package

Table 2-2 Interface Indications

Chapter 3. Connecting to the Router

3.1 System Requirements

- Broadband Internet Access Service (Cable/xDSL/Ethernet connection)
- One Cable/xDSL Modem that has an RJ-45 connector (not necessary if the Router is connected directly to the Ethernet.)
- PCs with a working Ethernet Adapter and an Ethernet cable with RJ-45 connectors
- PC subscribers use Windows 98/ME, NT4.0, 2000/XP, Windows Vista / Win 7, MAC OS 9 or later, or Linux, UNIX or other platforms compatible with **TCP/IP** protocols
- The above PC is installed with a Web browser



1. The Router in the following instructions means PLANET WDRT-750AC.
2. It is recommended to use Internet Explore 7.0 or above to access the Router.

3.2 Installing the Router

Before installing the Router, make sure your PC is connected to the Internet through the broadband service successfully at this moment. If there is any problem, please contact your local ISP. After that, please install the Router according to the following steps. Don't forget to pull out the power plug and keep your hands dry.

Step 1. Power off your PC, Cable/xDSL Modem, and the Router.

Step 2. Locate an optimum location for the Router. The best place is usually at the center of your wireless network.

Step 3. Adjust the direction of the antenna. Normally, upright is a good direction.

Step 4. Connect the PC or Switch/Hub in your LAN to the LAN Ports (Yellow ports) of the Router with Ethernet cable, shown in [Figure 3-1](#).

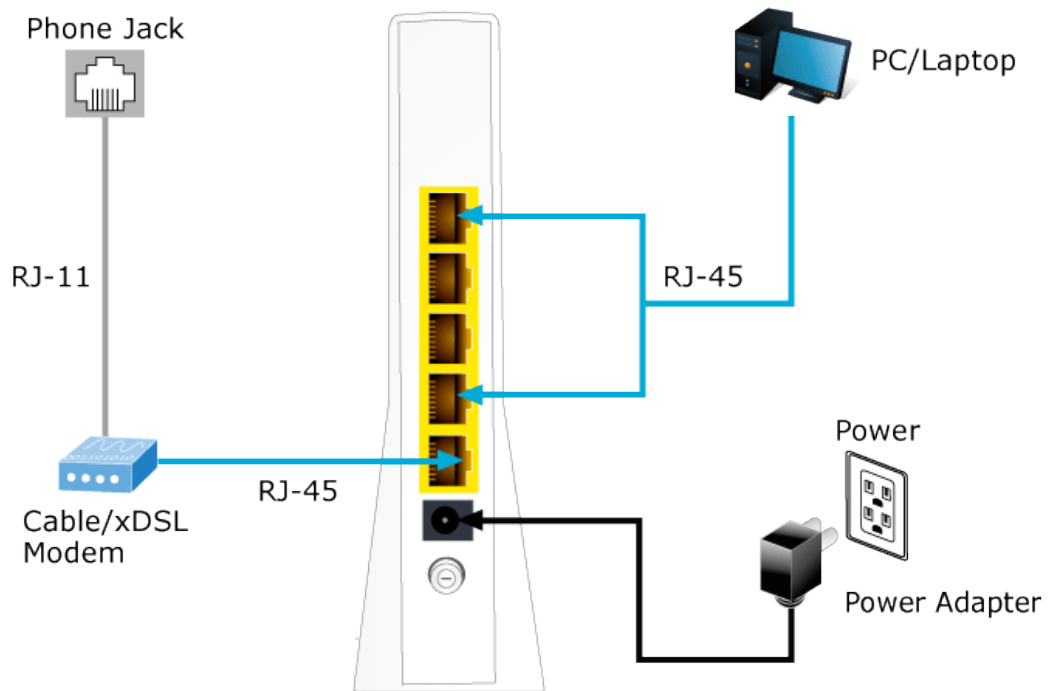


Figure 3-1 Hardware Installation of the WDRT-750AC Wireless Router

Step 5. Connect the power adapter to the power socket on the Router, and the other end into an electrical outlet. Then power on the Router.

Step 6. Power on your PC and Cable/xDSL Modem.

Chapter 4. Quick Installation Guide

This chapter will show you how to configure the basic functions of your Wireless Router using **Quick Setup** within minutes.



A computer with wired Ethernet connection to the Wireless Router is required for the first-time configuration.

4.1 Manual Network Setup - TCP/IP Configuration

The default IP address of the Wireless Router is **192.168.1.1**, and the default Subnet Mask is **255.255.255.0**. These values can be changed as you desire in the web UI of the Wireless Router. In this section, we use all the default values for description.

Whether the Wireless Router is configured via wired or wireless connection, the PC needs to be assigned an IP address first. Before you connect the local PC to the Wireless Router via wired or wireless connection, please configure the IP address for your PC in the following two ways first.

- **Obtaining an IP address automatically**
- **Configuring the IP address manually**

In the following sections, we'll introduce how to install and configure the TCP/IP correctly in **Windows 7**. And the procedures in other operating systems are similar. First, make sure your Ethernet Adapter is working, and refer to the Ethernet adapter's manual if needed.

4.1.1 Obtaining an IP Address Automatically

Summary:

1. Set up the TCP/IP Protocol in "**Obtain an IP address automatically**" mode on your PC.
2. Then the Wireless Router built-in DHCP server will assign IP address to the PC automatically.

If you are sure the DHCP server of Wireless Router is enabled (the default setting of **Router Mode**), you can set up the TCP/IP Protocol in "**Obtain an IP address automatically**" mode on your PC. And then the Wireless Router built-in DHCP server will assign an IP address to the PC automatically.

1. Installing TCP/IP Component

- 1) On the Windows taskbar, click the **Start** button, point to **Control Panel**, and then click it.

- 2) Under the **Network and Internet** icon, click on the **View network status and tasks**. And then click **Change adapter settings**.

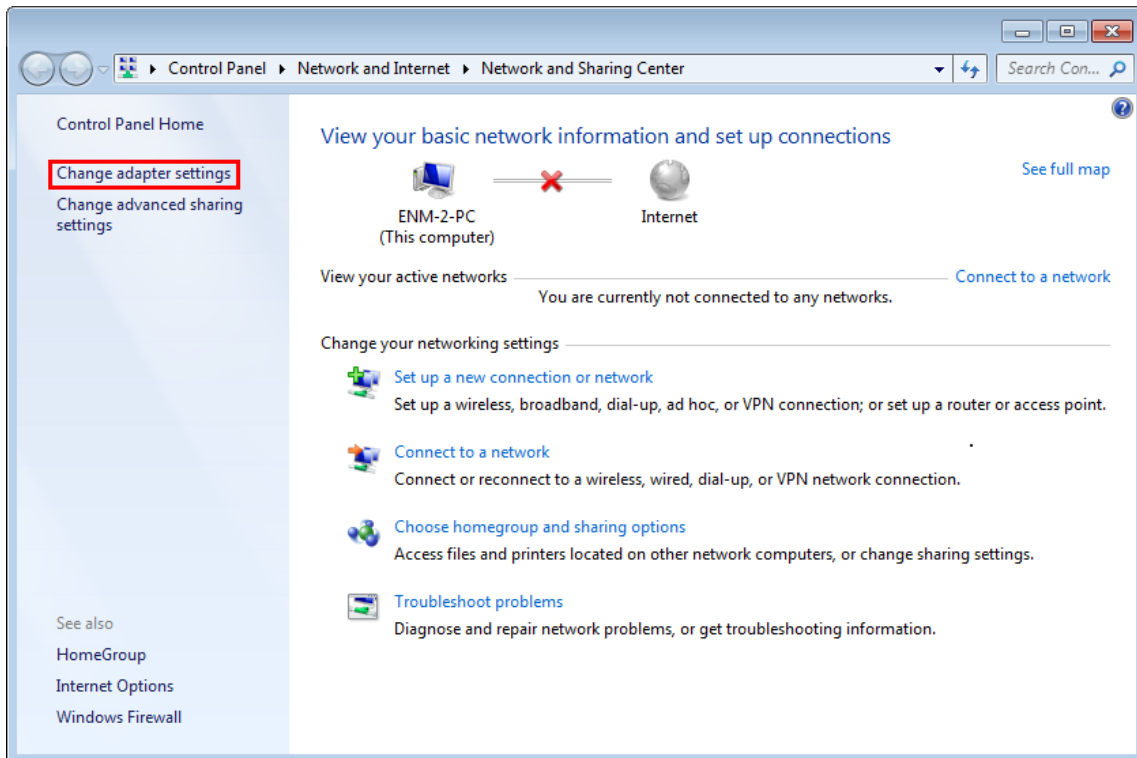


Figure 4-1 Change Adapter Settings

- 3) Right-click on the **Wireless Network Connection**, and select **Properties** in the appearing window.

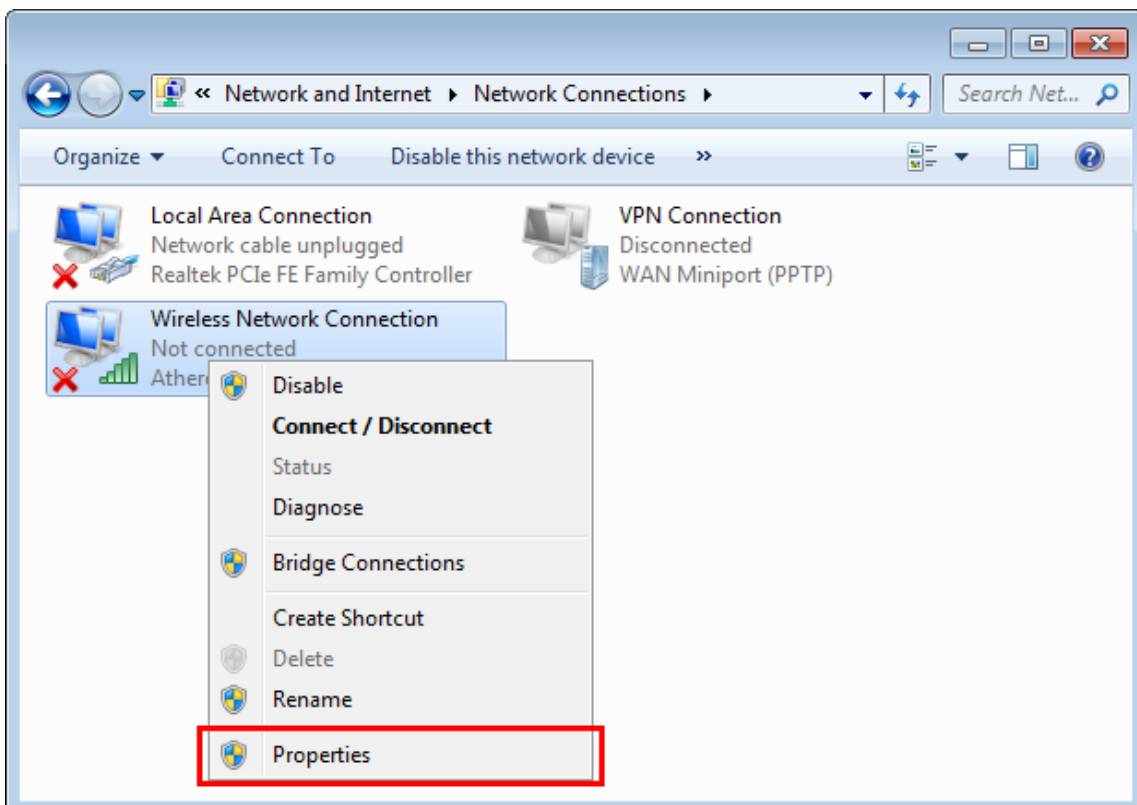


Figure 4-2 Network Connection Properties

- 4) In the prompt window shown below, double-click on the **Internet Protocol Version 4 (TCP/IPv4)**.

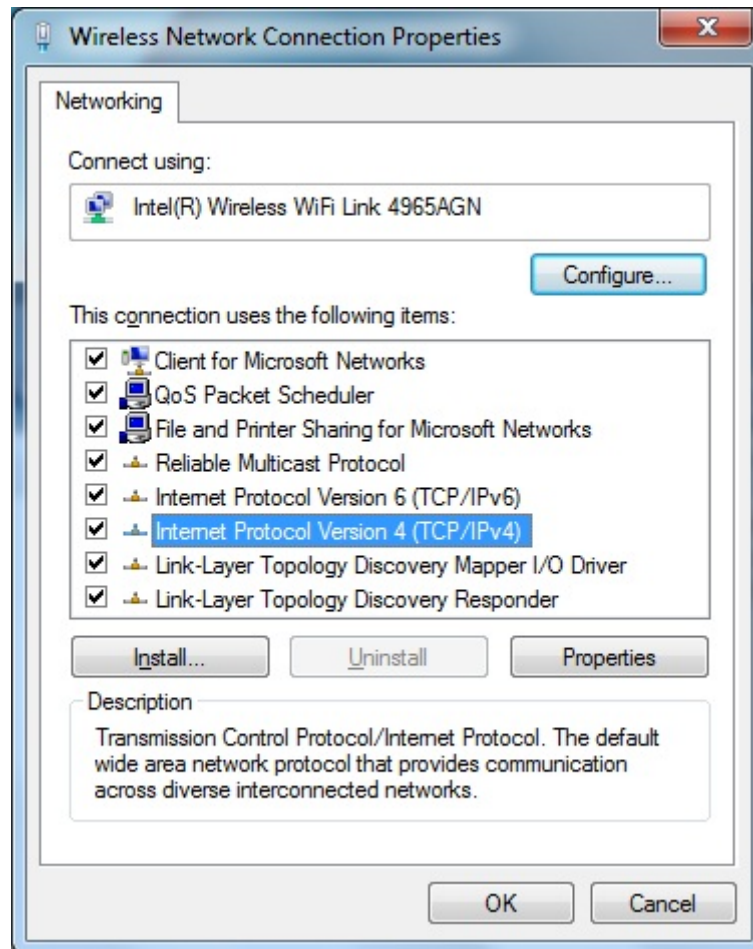


Figure 4-3 TCP/IP Setting

- 5) Choose **Obtain an IP address automatically**, and **Obtain DNS server address automatically** as shown in the figure below. Then click **OK** to save your settings.

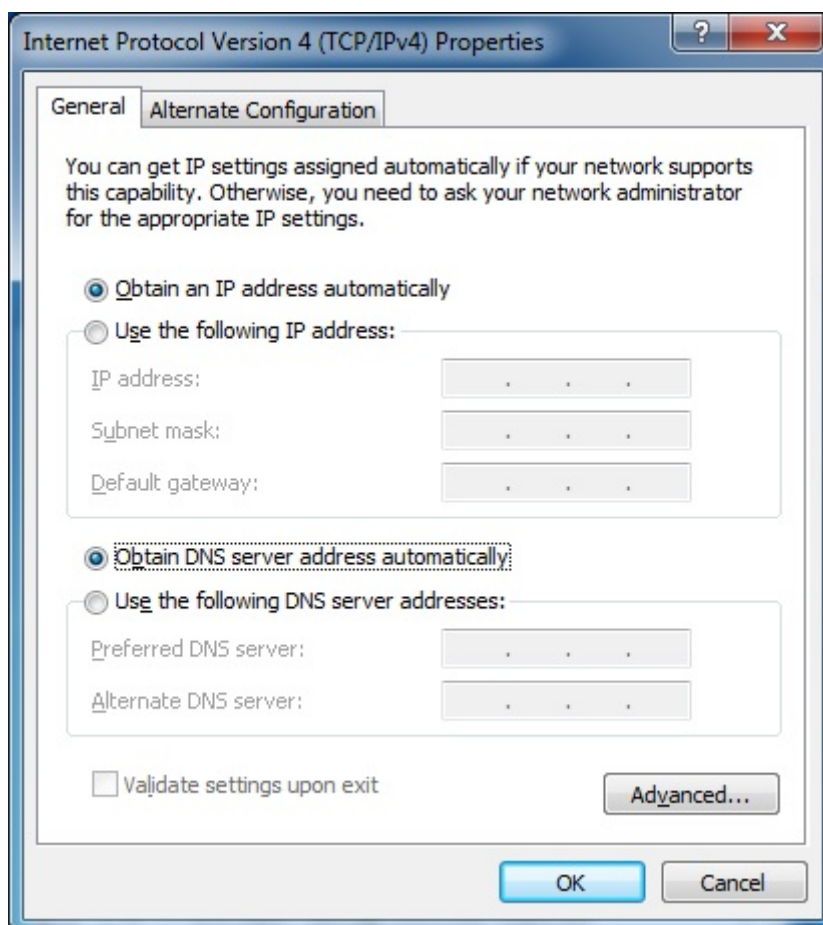


Figure 4-4 Obtain an IP Address Automatically

4.1.2 Configuring the IP Address Manually

Summary:

- Set up the TCP/IP Protocol for your PC.
- Configure the network parameters. The IP address is **192.168.1.xxx** ("xxx" is any number from 2 to 254), Subnet Mask is **255.255.255.0**, and Gateway is **192.168.1.1** (The Router's default IP address)

If you are sure the DHCP server of Wireless Router is disabled (the default setting of **AP Mode** and **Client Mode**), you can configure the IP address manually. The IP address of your PC should be 192.168.1.xxx (the same subnet of the IP address of the Wireless Router, and "xxx" is any number from 2 to 254), Subnet Mask is 255.255.255.0, and the Gateway is 192.168.1.1 (The default IP address of the Wireless Router)

- 1) Continue the settings from the last figure. Select **Use the following IP address** radio button.
- 2) If the LAN IP address of the Wireless Router is 192.168.1.1, enter IP address 192.168.1.x (x is from 2 to 254), and Subnet mask 255.255.255.0.
- 3) Enter the LAN IP address of the Wireless Router (the default IP is 192.168.1.1) into the default gateway field.
- 4) Select **Use the following DNS server addresses** radio button. In the preferred DNS Server field, you can

enter the DNS server IP address provided by your local ISP. Then click OK to save your settings.

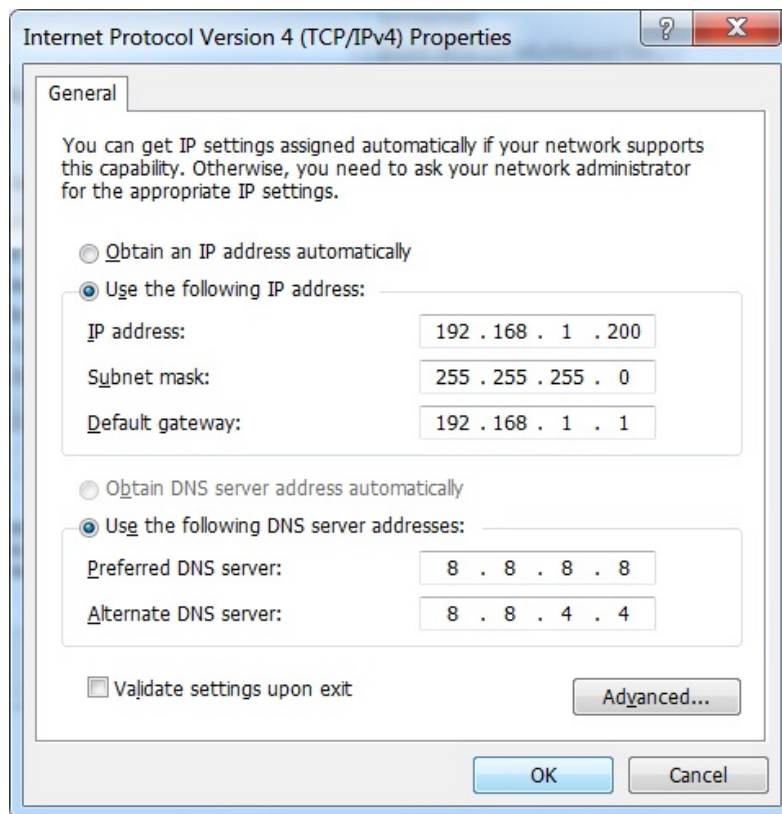


Figure 4-5

Now, you can run the Ping command in the **command prompt** to verify the network connection between your PC and the Router. The following example is in **Windows 7 OS**. Please follow the steps below:

1. Click on **Start**
2. Type "**cmd**" in the Search box.

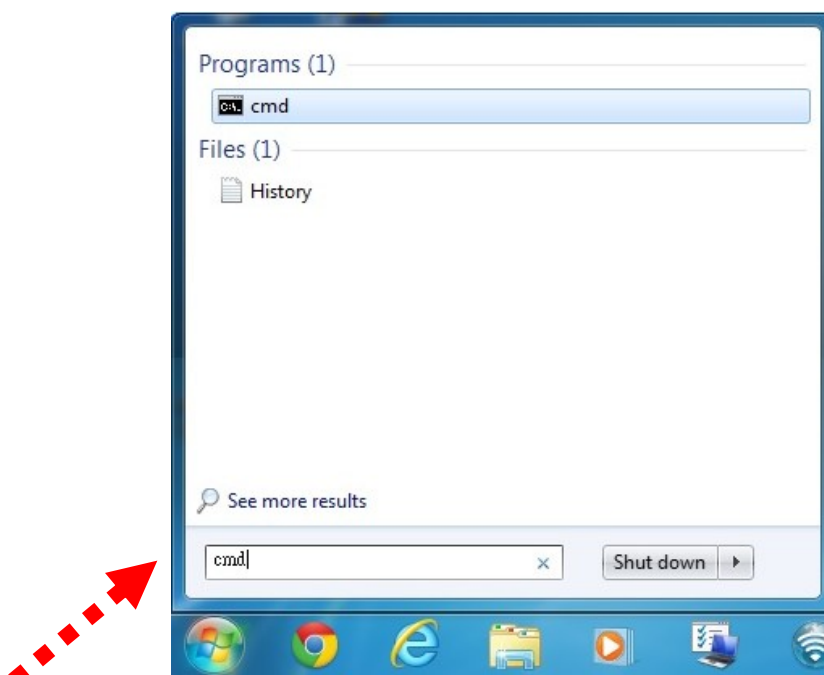
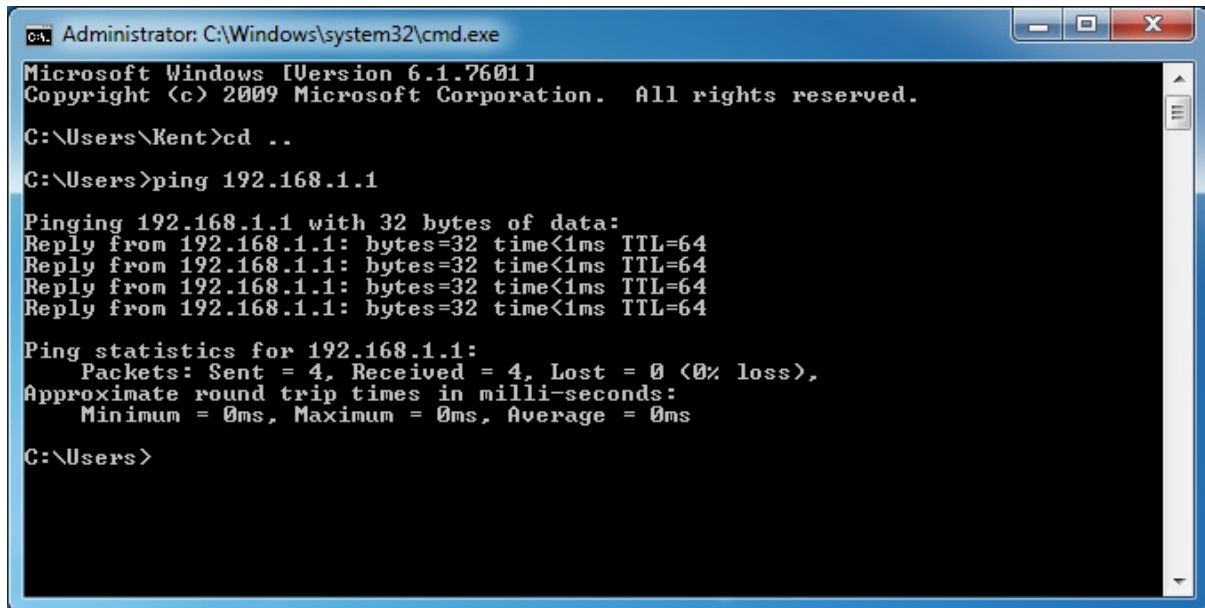


Figure 4-6

3. Open a command prompt, and type ping **192.168.1.1**, and then press **Enter**.
 - If the result displayed is similar to [Figure 4-7](#), it means the connection between your PC and the Router has been established well.



```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Kent>cd ..
C:\Users>ping 192.168.1.1

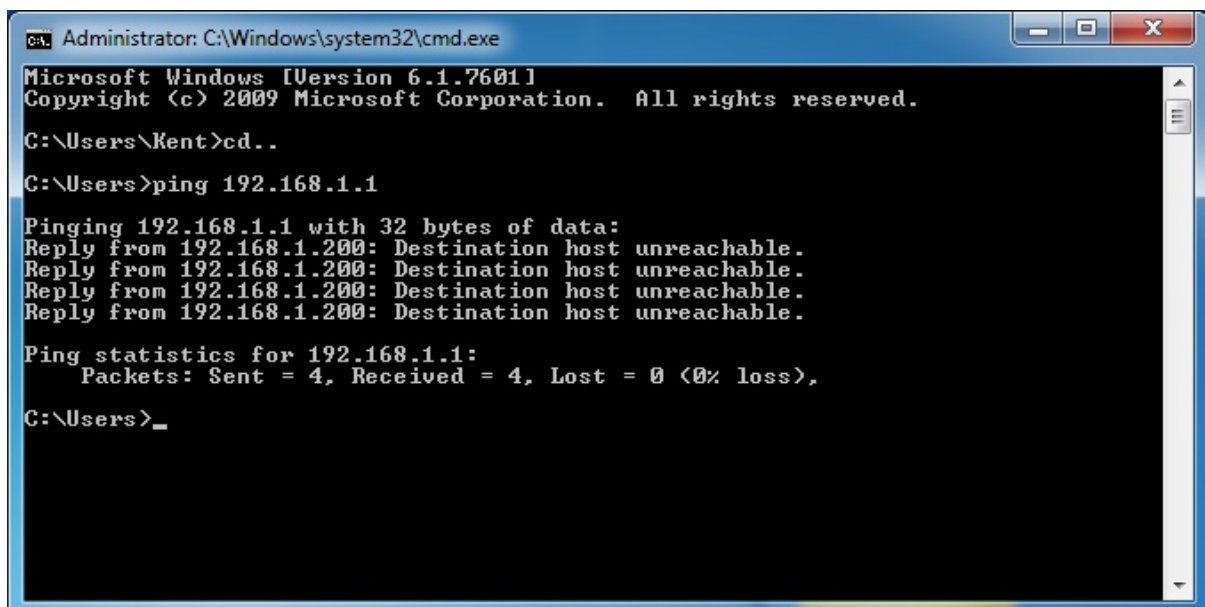
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64
Reply from 192.168.1.1: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users>
```

Figure 4-7 Success Result of Ping Command

- If the result displayed is similar to [Figure 4-8](#), it means the connection between your PC and the Router has failed.



```
Administrator: C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Kent>cd ..
C:\Users>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.200: Destination host unreachable.
Reply from 192.168.1.200: Destination host unreachable.
Reply from 192.168.1.200: Destination host unreachable.
Reply from 192.168.1.200: Destination host unreachable.

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

C:\Users>_
```

Figure 4-8 Failure Result of Ping Command

If the address is 0.0.0.0, check your adapter installation, security settings, and the settings on your router. Some firewall software programs may block a DHCP request on newly installed adapters.



If the Router's IP address is 192.168.1.1, your PC's IP address must be within the range of 192.168.1.2 ~ 192.168.1.254.

4.2 Starting Setup in the Web UI

It is easy to configure and manage the WDRT-750AC with the web browser.

Step 1. To access the configuration utility, open a web-browser and enter the default IP address <http://192.168.1.1> in the web address field of the browser.



Figure 4-9 Login the Router

After a moment, a login window will appear. Enter **admin** for the User Name and Password, both in lower case letters. Then click the **OK** button or press the **Enter** key.



Figure 4-10 Login Window

Default IP Address: **192.168.1.1**

Default User name: **admin**

Default Password: **admin**



Note

If the above screen does not pop up, it may mean that your web-browser has been set to a proxy. Go to Tools menu>Internet Options>Connections>LAN Settings, in the screen that appears, cancel the Using Proxy checkbox, and click OK to finish it.

After entering the user name and password, the **Wizard Setup** page screen appears as [Figure 4-11](#)



Figure 4-11 WDRT-750AC Web UI Screenshot

Step 2. Choose the correct Internet Access method. Please refer to the instructions in the next chapter for configuring the other Broadband types.



Figure 4-12 Choosing Internet Access Method

Step 3. Please enter the **WAN Settings Information, SSID security key, etc.** Then click **Reboot** button to make the configuration take effect.

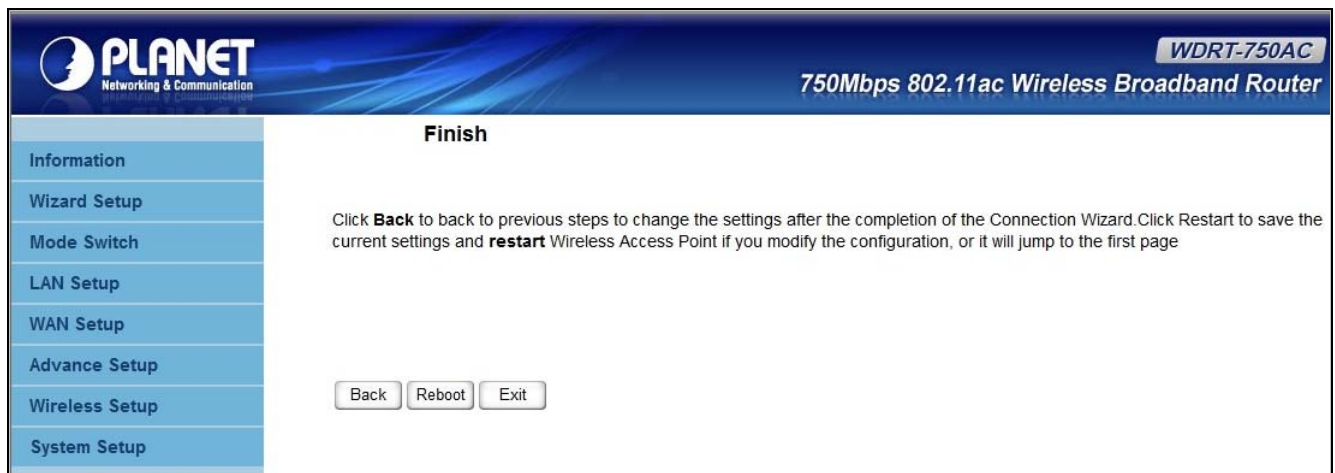


Figure 4-13

Chapter 5. Configuring the Router

This chapter delivers a detailed presentation of router's functionalities and features under 8 main menus below, allowing you to manage the router with ease.



Figure 5-1

During operation, if you are not clear about a certain feature, you can simply click the “Help” button to read all related helpful info.

5.1 Information

On this page, you can view information about the current running status of the WDRT-750AC, including WAN interface, LAN interface, Wireless interface settings and status, and firmware version information.

Information	
Uptime	0 day, 00:01:20
Local Time	1970-1-1 0:1:20
LAN	
MAC Address	00:30:4F:92:DD:09
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
DHCP Server	Enable
WAN	
MAC Address	00:30:4F:92:DD:0A
Connection	DHCP Disconnect Release Renew
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Gateway	0.0.0.0
DNS	0.0.0.0 0.0.0.0
2.4G WLAN Status	
2.4G Radio Status	On
Wireless Mode	11b/g/n Mixed Mode
Frequency (Channel)	Channel 3
SSID	WDRT-750AC_2.4G
SSID Security Mode	Disable
5G WLAN Status	
5G Radio Status	On

Figure 5-1-1

5.2 Wizard Setup

“Wizard Setup” includes the following four steps. Click **Next** for configuration. Below explains, in details, each such feature.



Figure 5-2-1

5.2.1 WAN Type



Figure 5-2-2 LAN Settings Web Page Screenshot

The page includes the following fields:

Object	Description
DHCP:	Select this option to let router obtain IP settings automatically from your ISP, if your ISP does not give you any IP information or account information. You don't need to configure any settings for

	this connection.
• Static IP Address:	If your ISP offers you static IP Internet connection type, select "Static IP" from corresponding drop-down menu and then enter IP address, subnet mask, primary DNS and secondary DNS information provided by your ISP in the corresponding fields.
• PPPoE:	Select PPPoE, if your ISP is using a PPPoE connection and provide you with PPPoE user name and password info.



WAN IP, whether obtained automatically or specified manually, should NOT be on the same IP net segment as the LAN IP; otherwise, the router will not work properly. In case of emergency, press the hardware "Reset" button.

■ DHCP

Select this option to let router obtain IP settings automatically from your ISP, if your ISP does not give you any IP information or account information. You don't need to configure any settings for this connection.

Select WAN Type

Select the connection method to connect to your ISP. Click Next to continue.

☒ DHCP

☐ Static IP Address

☐ PPPoE

Obtain an IP address from your ISP.

Set static IP information provided to you by your ISP.

PPPOE Point to Point Protocol.

Back
Next
Exit

Figure 5-2-3



DO NOT change the factory default MTU value unless necessary as an improper MTU value may degrade your network performance or even lead to network malfunction.

■ Static IP Address

If your ISP offers you static IP Internet connection type, select "Static IP" from corresponding drop-down menu and then enter IP address, subnet mask, primary DNS and secondary DNS information provided by your ISP in the corresponding fields.

Select WAN Type

Select the connection method to connect to your ISP. Click Next to continue.

☐ DHCP Obtain an IP address from your ISP.

☒ Static IP Address Set static IP information provided to you by your ISP.

☐ PPPoE PPPOE Point to Point Protocol.

Figure 5-2-4

Set static IP address

Set static IP information provided to you by your ISP. Click Next to continue.

WAN IP Address

WAN Subnet Mask

WAN Gateway

Primary DNS Address

Secondary DNS Address (Optional)

Figure 5-2-5

The page includes the following fields:

Object	Description
• WAN IP Address:	Enter the WAN IP address provided by your ISP. Inquire your ISP if you are not clear.
• WAN Subnet Mask:	Enter WAN Subnet Mask provided by your ISP.
• WAN Gateway:	Enter the WAN Gateway address provided by your ISP.
• Primary DNS Server:	Enter the necessary DNS address provided by your ISP.
• Secondary DNS Server:	Enter the other DNS address if your ISP provides you with 2 such addresses, and it is optional.



DO NOT change the factory default MTU value unless necessary as an improper MTU value may degrade your network performance or even lead to network malfunction.

■ PPPoE

Select PPPoE, if your ISP is using a PPPoE connection and provide you with PPPoE user name and password info.

Select WAN Type

Select the connection method to connect to your ISP. Click Next to continue.

☐ DHCP Obtain an IP address from your ISP.
☐ Static IP Address Set static IP information provided to you by your ISP.
☒ PPPoE PPPOE Point to Point Protocol.

Back Next Exit

Figure 5-2-6

PPPoE Settings

The service name is optional, but if your ISP requires this information, please enter the appropriate value. Click Next to continue.

User Account ✕
 User Password
 Confirm Password

Back Next Exit

Figure 5-2-7

The page includes the following fields:

Object	Description
• User Account:	Enter the User Name provided by your ISP.
• User Password:	Enter the password provided by your ISP.
• Confirm Password:	Enter the password again to confirm it.



Note

DO NOT change the factory default MTU value unless necessary as an improper MTU value may degrade your network performance or even lead to network malfunction.

5.3 Mode Switch

The WDRT-750AC supports two modes and users can select Gateway or Repeater mode for your applications.

Mode Switch

☒ Gateway

☐ Repeater

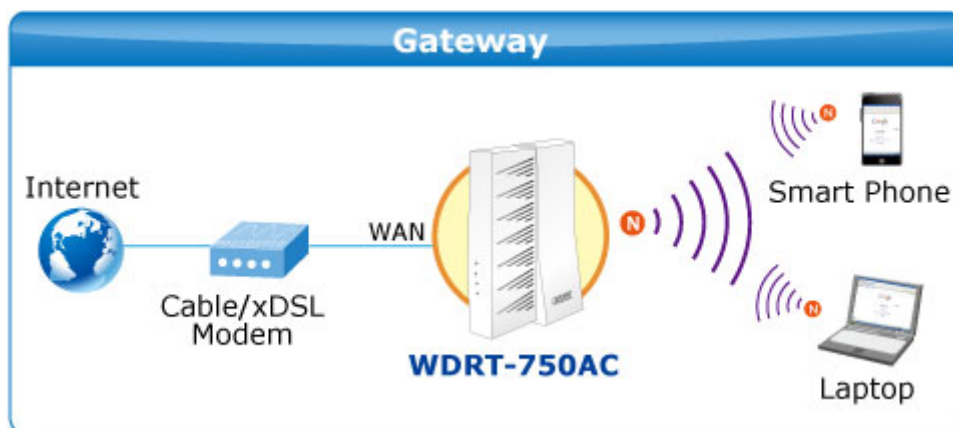
The first Ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are treated as LAN port

The wireless sta and ethernet MAC will passthrough to RootAP, and all network interfaces will be bridged

Figure 5-2-7

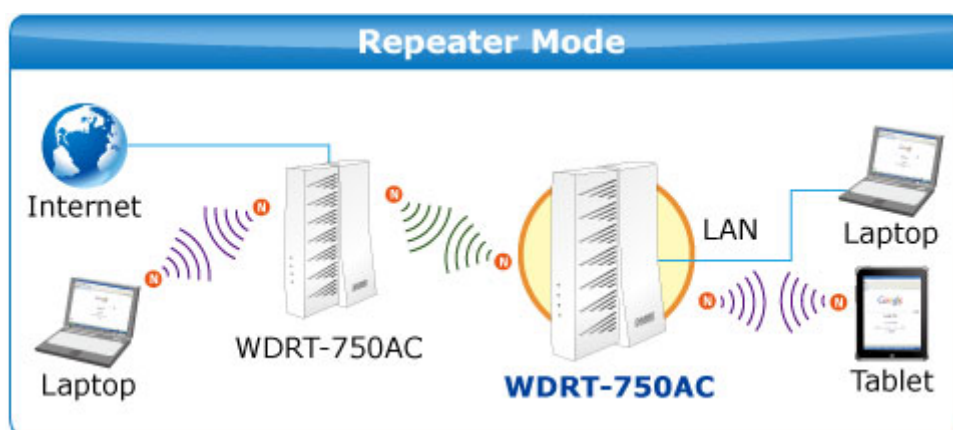
■ Gateway

In this mode, the device is supposed to connect to internet via ADSL/cable modem. The NAT is enabled and PCs in four LAN ports share the same IP to ISP through WAN port.



■ Repeater

All wireless and Ethernet MAC will pass through the WDRT-750AC, and all network interfaces will be bridged.



5.4 LAN Setup

LAN Setup

LAN Management IP

IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

Domain Name: RootAP (Optional)

DNS Relay: ☒ Enable ☐ Disable

DHCP Server

DHCP Server: ☒ Enable ☐ Disable

Starting IP Address: 192.168.1.2

Ending IP Address: 192.168.1.254

Lease Time: 1 Day

DHCP Reserved Address Settings

DHCP Reserved Address: ☐ Enable ☒ Disable

IP Address: 192.168.1.

MAC Address: - - - - -

DHCP Client: ACER6292-PC, 192.168.1.2, 00:1E:68:6A:5D:55

Buttons: Apply, Cancel, Help

Figure 5-4-1

The page includes the following fields:

Object	Description
IP Address:	Router's LAN IP. The default is 192.168.1.1 . You can change it according to your needs.
Subnet Mask:	Router's LAN subnet mask.
Domain Name	Set the domain name of the server.
DNS Relay	Select Enable to enable DNS Relay.
DHCP Server	If it is selected, the router serves as the DHCP server and automatically assigns IP addresses for all computers in the LAN.
Starting IP Address	The start IP address of all the available successive IPs.
Ending IP Address	The end IP address of all the available successive IPs.
Lease Time	Select the time for using one assigned IP from the dropdown list. After the lease time, the AP automatically assigns new IP

	addresses to all connected computers.
• DHCP Reserved Address	Select Enable to enable DHCP Reserved Address service.
• IP Address	The static IP address assigned to a PC in the LAN. It must be within the IP address pool. The network card of this PC obtains the same IP address when accessing the DHCP server
• MAC Address	Enter the MAC address of a computer whose IP address is to be reserved.



If you change the device's LAN IP address, you must enter the new one in your browser to get back to the web-based configuration utility. And LAN PCs' gateway must be set to this new IP for successful Internet connection.

5.5 WAN Setup

On this page, you can configure the parameters of the WAN interface.

Figure 5-5-1

5.5.1 DHCP

Select this option to let router obtain IP settings automatically from your ISP if your ISP does not give you any IP information or account information. You don't need to configure any settings for this connection.

The page includes the following fields:

Object	Description
• Host Name:	Set the host name of the server.
• MAC Address:	Press “Clone” to show the MAC Address of this router.
• Primary DNS Address:	Enter the necessary DNS address provided by your ISP.
• Secondary DNS Address:	Enter the other DNS address if your ISP provides you with 2 such addresses, and it is optional.
• MTU:	The maximum transmission unit. You can keep it as defaults.

5.5.2 Static IP Address

If your ISP offers you static IP Internet connection type, select "Static IP" from the corresponding drop-down menu and then enter IP address, subnet mask, primary DNS and secondary DNS information provided by your ISP in the corresponding fields.

The screenshot shows the 'WAN Setup' configuration page. Under the 'Select WAN Type' section, 'Static IP Address' is selected. Below this, the 'Static IP Address' section contains input fields for IP Address, Subnet Mask, Gateway, MAC Address, Primary DNS Address, Secondary DNS Address, and MTU. The IP Address, Subnet Mask, and Gateway fields are pre-filled with '0.0.0.0'. The MAC Address field is followed by a 'Clone' button. The Secondary DNS Address field is marked as '(Optional)'. At the bottom, there are 'Apply', 'Cancel', and 'Help' buttons.

Figure 5-5-2

The page includes the following fields:

Object	Description
• IP Address:	Router's LAN IP. The default is 192.168.1.1 . You can change it according to your needs.
• Subnet Mask:	Router's LAN subnet mask.
• Gateway:	Enter the gateway provided by your ISP. The gateway is the IP address connected to the ISP.
• MAC Address:	Press "Clone" to show the MAC Address of this router.
• Primary DNS Address:	Enter the necessary DNS address provided by your ISP.
• Secondary DNS	Enter the other DNS address if your ISP provides you with 2 such

Address:	addresses, and it is optional.
• MTU:	The maximum transmission unit. You can keep it as defaults.

5.5.3 PPPoE

Select PPPoE, if your ISP is using a PPPoE connection and provide you with PPPoE user name and password info.

WAN Setup

Select WAN Type

☐ DHCP Obtain an IP address automatically from your ISP
 ☐ Static IP Address Set static IP information provided to you by your ISP
 ☒ PPPoE PPPOE Point to Point Protocol
 ☐ PPTP PPTP VPN Client
 ☐ L2TP L2TP VPN Client

PPPOE Setup

☒ Dynamic PPPoE ☐ Static PPPoE

PPPoE User Name

PPPoE User Password

Confirm Password

Service Name (Optional)

IP Address

MAC Address - - - - - (Optional)

Primary DNS Address

Secondary DNS Address (Optional)

Maximum Idle Time Min

Figure 5-5-3

The page includes the following fields:

Object	Description
• PPPoE User Name:	Enter the User Name provided by your ISP.
• PPPoE Password:	Enter the password provided by your ISP.
• Confirm Password:	Enter the password again to confirm it.
• Service Name:	Press "Clone" to show the MAC Address of this router.

• IP Address:	The IP address of the WAN provided by your ISP. This entry needs to be filled when Static PPPoE is selected.
• MAC Address:	Press “Clone” to show the MAC Address of this router.
• Primary DNS Address:	Enter the necessary DNS address provided by your ISP.
• Secondary DNS Address:	Enter the other DNS address if your ISP provides you with 2 such addresses, and it is optional.
• Maximum Idle Time:	The time which is auto disconnecting to ISP.
• MTU:	The maximum transmission unit. You can keep it as defaults.
• Connection mode:	Auto connection: The system automatically keeps dialing for WAN connection once the connection is broken.
	Manual connection: Manually dial to connect the WAN once powering on the Router.
	Connection in use: The system automatically establishes a connection when a network access request from the LAN is received.

5.5.4 PPTP

The **Point-to-Point Tunneling Protocol (PPTP)** is a method for implementing virtual private networks (**VPN**).

WAN Setup

Select WAN Type

☐ DHCP

Obtain an IP address automatically from your ISP

☐ Static IP Address

Set static IP information provided to you by your ISP

☐ PPPoE

PPPOE Point to Point Protocol

☒ PPTP

PPTP VPN Client

☐ L2TP

L2TP VPN Client

PPTP Client

☒ DHCP ☐ Static IP

IP Address

0.0.0.0

Subnet Mask

255.255.255.0

Gateway

0.0.0.0

Server Address/Name

0.0.0.0

PPTP User Name

pptp user

PPTP User Password

•••••

Confirm Password

•••••

MAC Address

(Optional)

Clone

Maximum Idle Time

5

Min

Figure 5-5-4

The page includes the following fields:

Object	Description
• IP Address:	The IP address of the WAN provided by your ISP. This entry needs to be filled when Static IP is selected.
• Subnet Mask:	Enter the subnet mask provided by your ISP. This entry needs to be filled when Static IP is selected.
• Gateway:	Enter the gateway provided by your ISP. The gateway is the IP address connected to the ISP.
• Service Address/Name:	The server address or name of PPTP.
• PPTP User Name:	Enter the PPTP user name provided by your ISP.
• PPTP User Password:	Enter the PPTP password provided by your ISP.
• Confirm Password:	Enter the password again to confirm it.
• MAC Address:	Press “Clone” to show the MAC Address of this router.
• Maximum Idle	The time which is auto disconnecting to ISP.

Time:	
• Primary DNS Address:	Enter the necessary DNS address provided by your ISP.
• Secondary DNS Address:	Enter the other DNS address if your ISP provides you with 2 such addresses, and it is optional.
• MTU:	The maximum transmission unit. You can keep it as defaults.
• Connection mode:	Auto connection: The system automatically keeps dialing for WAN connection once the connection is broken.
	Manual connection: Manually dial to connect the WAN once powering on the Router.
	Connection in use: The system automatically establishes a connection when a network access request from the LAN is received.

5.5.5 L2TP

Layer 2 Tunneling Protocol (L2TP) is a tunneling protocol used to support virtual private networks (**VPN**) or as part of the delivery of services by ISPs.

WAN Setup

Select WAN Type

☐ DHCP Obtain an IP address automatically from your ISP
 ☐ Static IP Address Set static IP information provided to you by your ISP
 ☐ PPPoE PPPoE Point to Point Protocol
 ☐ PPTP PPTP VPN Client
 ☒ L2TP L2TP VPN Client

L2TP Client

☒ DHCP ☐ Static IP

IP Address

Subnet Mask

Gateway

Server Address/Name

L2TP User Name

L2TP User Password

Confirm Password

MAC Address - - - - - (Optional)

Maximum Idle Time Min

Figure 5-5-4

The page includes the following fields:

Object	Description
• IP Address:	The IP address of the WAN provided by your ISP. This entry needs to be filled when Static IP is selected.
• Subnet Mask:	Enter the subnet mask provided by your ISP. This entry needs to be filled when Static IP is selected.
• Gateway:	Enter the gateway provided by your ISP. The gateway is the IP address connected to the ISP.
• Service Address/Name:	The server address or name of L2TP.
• L2TP User Name:	Enter the L2TP user name provided by your ISP.
• L2TP User Password:	Enter the L2TP password provided by your ISP.
• Confirm Password:	Enter the password again to confirm it.
• MAC Address:	Press "Clone" to show the MAC Address of this router.
• Maximum Idle Time:	The time which is auto disconnecting to ISP.
• Primary DNS Address:	Enter the necessary DNS address provided by your ISP.
• Secondary DNS Address:	Enter the other DNS address if your ISP provides you with 2 such addresses, and it is optional.
• MTU:	The maximum transmission unit. You can keep it as defaults.
• Connection mode:	Auto connection: The system automatically keeps dialing for WAN connection once the connection is broken.
	Manual connection: Manually dial to connect the WAN once powering on the Router.
	Connection in use: The system automatically establishes a connection when a network access request from the LAN is received.

5.6 Advance Setup

Click **Advance Setup** on the left pane and its submenu comes out. In this section, you can configure the advanced features of the AP.

5.6.1 Port Triggering

Port Triggering is a special form of Port Forwarding in which it requires an outgoing connection before allowing incoming connections on single or multiple port. Port Triggering is mostly used when your computer is behind a NAT router.

Port Triggering

PortTrigger ☐ Enable ☒ Disable

Name

Trigger Port

Trigger Type ▼

Public Port

Public Type ▼

Port Triggering List						0/32 (Lots/Total Lots)
Status	Name	Trigger Port	Trigger Type	Public Port	Public Type	

Figure 5-6-1

The page includes the following fields:

Object	Description
• Name:	Please customize the name of the rule.
• Trigger Port:	Input the starting port number in the left field, and the ending port number in the right field.
• Trigger Type:	Select the type of connection. If you're not sure, please select Both .
• Public Port:	The port which is used by external server for initiating the request to client.
• Public Type:	The protocol which is used when the external server initiates the request to client.

5.6.2 QoS Setup

On this page, you can enable or disable QoS service. Optimize the access flow based on the QoS priority rule.

QoS Setup

QoS Service	☒ Enable ☐ Disable
Traffic Control	☐ Enable ☒ Disable
IP Address	192.168.1. ~
Uplink	K bps/Second
Downlink	K bps/Second (0: unlimit)

QoS Applications List			
Status	IP Address	Uplink (bps/Second)	Downlink (bps/Second)

Figure 5-6-2

The page includes the following fields:

Object	Description
• QoS Service:	Enable or disable the QoS service.
• Traffic Control:	To enable or disable every single QoS rule.
• IP Address:	The IP address segment which uses this QoS rule.
• Uplink:	Set the maximum uplink bandwidth allowed by the listed QoS rules.
• Downlink:	Set the maximum downlink bandwidth allowed by the listed QoS rules.

5.6.3 Filters Setup

■ IP Filters

You can block or allow LAN side clients to access the Internet.

Filters Setup

Filters Setup

☒ IP Filters
☐ MAC Filters
☐ URL Blocking

IP Filters

IP Filters ☐ Enable ☒ Disable

IP Address

Port

Protocol Type

Schedule

☒ Always

☐ From

time : to :

day to

Figure 5-6-3

The page includes the following fields:

Object	Description
• IP Filters:	Enable or disable the IP Filters service.
• IP Address:	Enter the single IP Address or a range of IP address to be filtered.
• Port:	Enter the port range to be filtered. The starting port no. must be less than ending port no. Generally, the port range is set to be 1-65535 .
• Protocol Type:	Select the protocol type to be filtered. You can choose Both .
• Schedule:	Set the valid time for the IP Filters.

■ MAC Filters

To better manage PCs in LAN, you can use the MAC Address Filter function to allow/disallow such PCs to access to Internet.

Filters Setup

Filters

☐ IP Filters

☒ MAC Filters

☐ URL Blocking

MAC Filters

☒ Disable MAC Filters

☐ Only **allow** computers with MAC address listed below to access the network

☐ Only **deny** computers with MAC address listed below to access the network

MAC Filter Rule

Rule Name

MAC Address - - - - -

DHCP Client

Figure 5-6-4

The page includes the following fields:

Object	Description
MAC Filters:	You can choose to enable or disable the MAC filters. If enable the MAC filters, you can choose allow or deny the PC with MAC address listed below to access the network.
Rule Name:	Set a name for a rule.
MAC Address:	The MAC address to be filtered.
DHCP Client:	Click Clone, you can copy the MAC address of the selected DHCP client and pasted in the MAC Address entries.

■ URL Blocking

To better control LAN PCs, you can use the URL Blocking functionality to allow or disallow such PC to access certain websites within a specified time range.

The screenshot shows the 'Filters Setup' window. Under the 'Filters' section, 'URL Blocking' is selected with a radio button. In the 'URL Blocking' section, 'URL Blocking' is also selected, and the 'Enable' radio button is chosen. Below this, there is a 'URL Blocking Content' text input field and a 'URL Blocking List' list box. A 'delete' button is located at the bottom of the list box. At the very bottom of the window are 'Apply', 'Cancel', and 'Help' buttons.

Figure 5-6-5

The page includes the following fields:

Object	Description
• URL Blocking:	Enable or disable URL blocking.
• URL Blocking Content:	The content to be filtered in URL.
• URL Blocking List	To present the added URL Blocking rules.



The URL does not support https filtered.

5.6.4 Virtual Server

For each Virtual Server, you define a WAN port on your router for redirection to an internal LAN IP Address and LAN port.

Virtual Server

VirtualServer

Virtual Server ☐ Enable ☒ Disable

Name

Private IP Address

Protocol Type

Public Port ~

Private Port ~

Schedule

☒ Always

☐ From

time : to :

day to

Figure 5-6-6

The page includes the following fields:

Object	Description
• Virtual Server:	Enable or disable Virtual Server.
• Name:	Set a name for the rule.
• Private IP Address:	Enter the LAN IP.
• Protocol Type:	You can choose TCP or UDP.
• Public Port:	Set the range of public port.
• Private Port:	Set the range of the private port. The range is from 1-65536 . Do not use the common used port.
• Schedule:	You can set the valid time for the virtual server.
• Virtual List:	It presents the added virtual server.

5.6.5 DDNS Configuration

The Wireless Router supports **Dynamic Domain Name Service (DDNS)**. The dynamic DNS service allows a dynamic public IP address to be associated with a static host name in any of the many domains, and allows access to a specified host from various locations on the Internet. Click a hyperlinked URL in the form of hostname.dyndns.org and allow remote access to a host. Many ISPs assign public IP addresses using DHCP, so locating a specific host on the LAN using the standard DNS is difficult. For example, if you are running a public web server or VPN server on your LAN, DDNS ensures that the host can be located from the Internet even if the public IP address changes. DDNS requires that an account be set up with one of the supported DDNS service providers (DyndDNS.org).

Figure 5-6-7

The page includes the following fields:

Object	Description
• DDNS:	Enable or disable DDNS.
• Server Provider:	Select a server provider or shut down the existing server.
• Host Name:	Enter the host name or domain name provided by DDNS provider.
• User Name / E-mail Address:	Enter the DDNS user name of the DDNS account.
• Password:	Enter the DDNS password of the DDNS account.

5.6.6 DMZ

DMZ is the abbreviation of the Demilitarized Zone. Since some applications are not compatible with NAT, the AP supports the use of a DMZ IP address for a single host on the LAN. This IP address is not protected by NAT and it is visible to agents on the Internet with the correct type of software. Note that any client PC in the DMZ is

exposed to various types of security risks. If you use the DMZ, take measures (such as client-based virus protection) to protect the remaining client PCs on your LAN from possible contamination through DMZ.

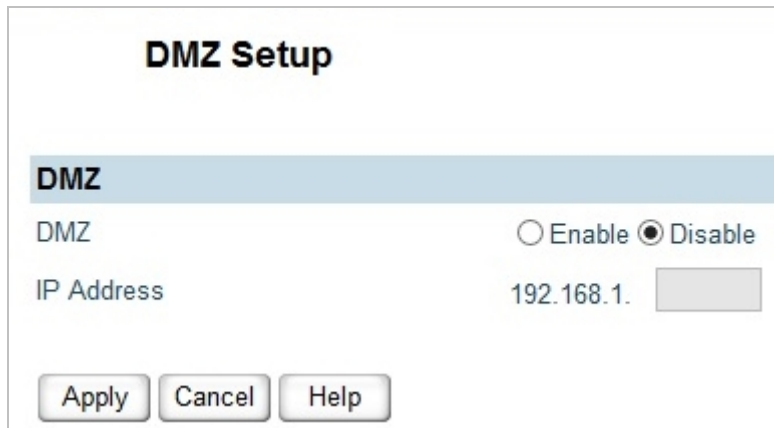
The image shows a 'DMZ Setup' dialog box. At the top, the title 'DMZ Setup' is centered. Below it, a tab labeled 'DMZ' is selected. The dialog contains two main settings: 'DMZ' with radio buttons for 'Enable' and 'Disable' (where 'Disable' is selected), and 'IP Address' with a text field containing '192.168.1.' followed by an empty box for the last octet. At the bottom, there are three buttons: 'Apply', 'Cancel', and 'Help'.

Figure 5-6-7

The page includes the following fields:

Object	Description
• DMZ:	Enable or disable DMZ.
• IP Address:	Enter the IP Address for DMZ.

5.7 Wireless Setup

Click **Wireless Setup** on the left pane and its submenu comes out. In this section, you can configure the wireless network of 2.4G and 5G.

5.7.1 Wireless Basic

On the coming page, you can configure the basic wireless parameters of 2.4G and 5G by clicking **2.4G** and **5G**.

Figure 5-7-1

The page includes the following fields:

Object	Description
Wireless Mode:	Set the wireless mode to which you need. Default is “2.4GHz (B+G+N)”. It is strongly recommended that you set the Band to “2.4GHz (B+G+N)”, and all of 802.11b, 802.11g, and 802.11n wireless stations can connect to the WNRT-633. ■ 2.4 GHz (B): 802.11b mode, rate is up to 11Mbps ■ 2.4 GHz (G): 802.11g mode, rate is up to 54Mbps ■ 2.4 GHz (N): 802.11n mode, rate is up to 300Mbps(2T2R) ■ 2.4 GHz (B+G): 802.11b/g mode, rate is up to 11Mbps or 54Mbps ■ 2.4 GHz (G+N): 802.11g/n mode, rate is up to 54Mbps or 300Mbps ■ 2.4 GHz (B+G+N): 802.11b/g/n mode, rate is up to 11Mbps, 54Mbps, or 300Mbps

• SSID:	Set a name (SSID) for your wireless network. The ID of the wireless network. User can access the wireless network through it only. However, if you switch to Client Mode, this field becomes the SSID of the AP you want to connect with. Default: WDRT-750AC_2.4G
• SSID1:	Set a second SSID if required.
• BSSID:	The MAC Address of 2.4G Wireless LAN.
• Channel Bandwidth	Select a proper channel bandwidth to enhance wireless performance. When there are 11b/g and 11n wireless clients, please select the 802.11n mode of 20/40M frequency band.
• Frequency (Channel)	For an optimal wireless performance, you may select the least interferential channel. It is advisable that you select an unused channel or "Auto" to let device detect and select the best possible channel for your wireless network to operate on from the drop-down list.

Wireless Basic

2.4G

5G

Wireless Network

Wireless Mode

11ac/n/a Mixed Mode

SSID

WDRT-750AC_5G

SSID1
☐ Enable secondary ssid

BSSID

00:30:4F:92:DD:0C

Channel BandWidth

☐ 20
☒ 20/40

VHT BandWidth

☐ 20/40
☒ 80

Frequency (Channel)

AutoSelect

Apply

Cancel

Help

Figure 5-7-2

The page includes the following fields:

Object	Description
• Wireless Mode:	Set the wireless mode to which you need.

• SSID:	Set a name (SSID) for your wireless network.
• SSID1:	Set a second SSID if required.
• BSSID	The MAC Address of 5G Wireless LAN.
• Channel Bandwidth	Select a proper channel bandwidth to enhance wireless performance. When there are 11b/g and 11n wireless clients, please select the 802.11n mode of 20/40M frequency band.
• VHT Bandwidth:	Set VHT bandwidth to be 80 . The VHT bandwidth is used for 5G wireless network.
• Frequency (Channel)	For an optimal wireless performance, you may select the least interferential channel. It is advisable that you select an unused channel or "Auto" to let device detect and select the best possible channel for your wireless network to operate on from the drop-down list.

5.7.2 Wireless Advanced

In this page, you can configure the 2.4G and 5G wireless advanced parameters. It is recommended to use the default parameters.

Wireless Advanced

2.4G
5G

Advanced Wireless

Radio On/Off
☒ Enable
☐ Disable

Beacon Interval
 ms (range 20 - 999, default 100)

TX Power
 (range 1 - 100, default 100)

Country(Region)Code

Figure 5-7-3

Wireless Advanced **2.4G** **5G**

Advanced Wireless

Radio On/Off ☒ Enable ☐ Disable

Beacon Interval ms (range 20 - 999, default 100)

TX Power (range 1 - 100, default 100)

Country(Region)Code ▼

Figure 5-7-4

The page includes the following fields:

Object	Description
• Radio On/Off:	Enable or disable the radio function.
• Beacon Interval:	Set beacon interval, the value range is from 20-999.
• TX power:	Set the strength of the transmission power. The range is from 1-100.
• Country(Region)Code:	Select the country or region where you locate from

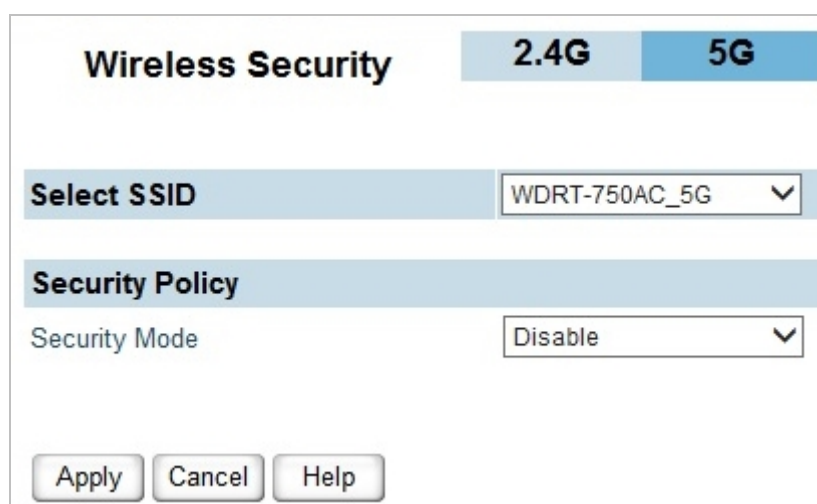
5.7.3 Wireless Security

You can set the security for 2.4G and 5G wireless network. The security modes for 2.4G and 5G are independent from each other.



The image shows the 'Wireless Security' configuration page for the 2.4G band. At the top, there are two tabs: '2.4G' (selected) and '5G'. Below the tabs, there is a 'Select SSID' dropdown menu with 'WDRT-750AC_2.4G' selected. Under the 'Security Policy' section, the 'Security Mode' dropdown menu is set to 'Disable'. At the bottom, there are three buttons: 'Apply', 'Cancel', and 'Help'.

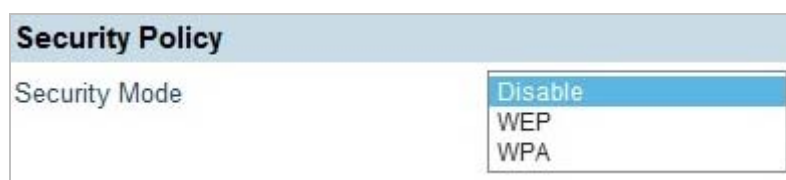
Figure 5-7-5



The image shows the 'Wireless Security' configuration page for the 5G band. At the top, there are two tabs: '2.4G' and '5G' (selected). Below the tabs, there is a 'Select SSID' dropdown menu with 'WDRT-750AC_5G' selected. Under the 'Security Policy' section, the 'Security Mode' dropdown menu is set to 'Disable'. At the bottom, there are three buttons: 'Apply', 'Cancel', and 'Help'.

Figure 5-7-6

Select the security mode from the **Security Mode** dropdown list. There are 3 options in the Security Mode dropdown list: **Disable**, **WEP**, and **WPA**



The image shows a close-up of the 'Security Policy' section. The 'Security Mode' dropdown menu is open, displaying three options: 'Disable' (highlighted in blue), 'WEP', and 'WPA'.

Figure 5-7-7

■ Disable

If you select **Disable**, no encryption is set for your wireless network. Any client can access the network. This option is not recommended.

The figure shows a dialog box titled "Security Policy". Inside, there is a label "Security Mode" followed by a dropdown menu. The dropdown menu is currently set to "Disable".

Figure 5-7-8

■ WEP

WEP is the abbreviation of wired equivalent privacy. You can encrypt the data with WEP 64 bits or 128 bits.

The figure shows a dialog box titled "Security Policy". The "Security Mode" dropdown is set to "WEP". Below this, there is a section titled "WEP" with several configuration options:

- Authentication Type:** A dropdown menu set to "Open System".
- WEP Key Length:** A dropdown menu set to "64 bit (10 hex digits/ 5 ascii keys)".
- WEP Key Entry Method:** A dropdown menu set to "Hexadecimal".
- WEP Keys:** Four text input fields labeled "WEP Key 1:", "WEP Key 2:", "WEP Key 3:", and "WEP Key 4:". All fields are currently empty.
- Default Key:** A dropdown menu set to "Key 1".

 At the bottom of the dialog box, there are three buttons: "Apply", "Cancel", and "Help".

Figure 5-7-9

The page includes the following fields:

Object	Description
• Authentication Type:	You can select Open System or Shared Key .
• WEP Key Length:	Choose the WEP key length. You can Choose 64-bit or 128-bit .
• WEP Key Entry Method:	You can choose Hexadecimal or Ascii Text .
• WEP Keys:	Enter the keys in four WEP key fields.
• Default Key:	Choose a key from WEP Key 1-4 to be default key.

■ WPA

The WPA protocol implements the majority of the [IEEE 802.11i](#) standard. It enhances data encryption through the **Temporal Key Integrity Protocol (TKIP)** which is a 128-bit per-packet key, meaning that it dynamically

generates a new key for each packet. WPA also includes a [message integrity check](#) feature to prevent data packets from being hampered with. Only authorized network users can access the wireless network.

Figure 5-7-10

The page includes the following fields:

Object	Description
• Authentication Type:	You can select WPA-Personal , WPA2-Personal or WPA/WPA2-Personal (Mixed Mode) .
• WPA Algorithms:	Set the WPA to be TKIP + AES
• Password Phrase:	Enter a password. The length of the password should be between 8-63 characters or 64 HEX digits.
• Key Renewal Interval:	The key renewal time is the period of time that the router uses the same key before a new one is generated. You can keep it as defaults

■ Wireless Network Access

The **Wireless Network Access** can control the wireless clients to access the wireless network.

Wireless Network Access			
MAC Access Control		☒ Disabled ☐ Allow ☐ Deny	
Access Control List			
MAC Address must be entered with colon (:) as follows Example: 00:11:56:CC:01:C3			
	MAC Address		MAC Address
MAC 1:	00:00:00:00:00:00	MAC 8:	00:00:00:00:00:00
MAC 2:	00:00:00:00:00:00	MAC 9:	00:00:00:00:00:00
MAC 3:	00:00:00:00:00:00	MAC 10:	00:00:00:00:00:00
MAC 4:	00:00:00:00:00:00	MAC 11:	00:00:00:00:00:00
MAC 5:	00:00:00:00:00:00	MAC 12:	00:00:00:00:00:00
MAC 6:	00:00:00:00:00:00	MAC 13:	00:00:00:00:00:00
MAC 7:	00:00:00:00:00:00	MAC 14:	00:00:00:00:00:00
Apply			

Figure 5-7-11

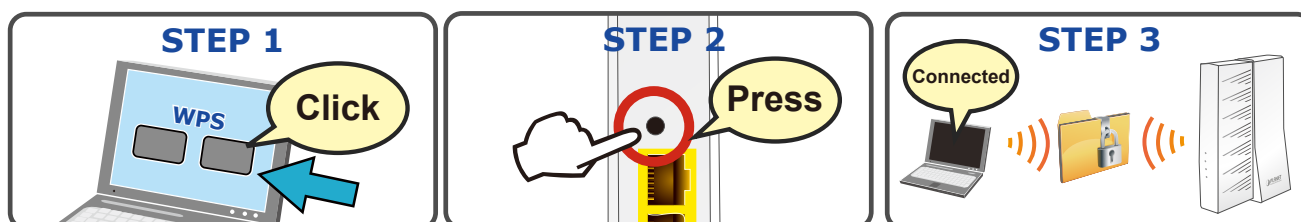
The page includes the following fields:

Object	Description
• MAC Access Control:	Allow: Select Allow, the MAC Address listed in the Access Control List will be allowed to access the wireless network of the router. Deny: Select Deny, the MAC Address listed in the Access Control List will be denied to access the wireless network of the router.
• MAC 1~14:	You can enter the MAC address to allow you are allowed to enter 14 MAC addresses at most. After setting, click Apply to save the settings

5.7.4 WPS Configuration

WPS (Wi-Fi Protected Setup) is designed to ease setup of security Wi-Fi networks and subsequently network management. The WPS enables the PC with WPS function to connect to the wireless network of the AP without setting any parameters, such as SSID, security mode, or password.

WPS (Wi-Fi Protected Setup) Quick & Easy Wireless Connection



Simply enter a PIN code or press the software PBC button or hardware WPS button (if any) and a secure wireless connection is established.

- **PBC**: If you press the hardware WPS button on the device, it means that PBC encryption method is successfully enabled. And an authentication will be performed between your router and the WPS/PBC-enabled wireless client device during this time; if it succeeds, the wireless client device connects to your device. Repeat steps mentioned above if you want to connect more wireless client devices to the device.
- **PIN**: To use this option, you must know the PIN code from the wireless client and enter it in corresponding field on your device while using the same PIN code on client side for such connection.

Choose **Wireless Setup > WPS Configuration** and the following page appears.

The screenshot shows the 'WPS Configuration' page with tabs for '2.4G' and '5G'. The page is divided into several sections:

- Wi-Fi Protected Setup**: Contains a 'WPS' dropdown menu set to 'Enable' with a description 'Enable wps of one radio and will disable the other', an 'Apply' button, and a 'Configure' section with a 'Configure Option' dropdown set to 'Configure Device via P'. Below this is a 'Write Pin Code' section with a 'Pin Number' input field, a 'Progress' button, and 'Apply', 'Cancel', and 'Help' buttons.
- Reset to Out-Of-Box Configuration**: Contains a 'Reset' button.
- Wi-Fi Protected Setup Information**: A table showing current settings:

Object	Description
SSID	WDRT-750AC_2.4G
Authentication Mode	OPEN
Encryption Type	NONE

Figure 5-7-12

The page includes the following fields:

Object	Description
• WPS:	Select Enable or Disable this function.

• Configure Option:	Configure Device via PIN: Enter the Pin Code of the network adapter of your PC, and then click Apply. Click the PIN button of the client's network device within 3 minutes. When the connection is established, the wireless client can access the wireless network of the AP. Configure Device via push-button: Click the PBC button of the client's network device within 3 minutes. When the connection is established, the wireless client can access the wireless network of the AP.
• Progress:	You can click Progress to check whether the connection is established.
• Reset:	Reset the configuration.



1. Enable WPS of one radio and the other will be disabled.
2. The wireless client is not able to establish the connection with the AP through WPS negotiation unless it supports WPS.

5.8 System Setup

5.8.1 User

You can change the password of the existing user account and enable remote management.

Figure 5-8-1

The page includes the following fields:

Object	Description
• New Password:	Enter a new password.
• Confirm Password:	Enter the password you set again.
• Remote Management:	The Remote Management feature allows users to configure your router from Internet via a web browser. Enable or Disable this function.
• IP Address:	Enter the IP address of a PC on Internet authorized to access and manage your router's web-based utility remotely.
• Port:	Select a port ID for remote web-based management. The default is 8080 .

5.8.2 Configure

On this page, you can reboot the router, save the settings to local area, and reset the router to the factory defaults.

The screenshot shows a web interface titled "Configure". It contains four rows of controls:

- Reboot:** A button labeled "Reboot".
- Save Settings To Local Hard Drive:** A button labeled "Save".
- Load Settings From Local Hard Drive:** A text input field followed by a "Browse..." button and a "Load" button.
- Restore To Factory Default Settings:** A button labeled "Restore".

Figure 5-8-2

The page includes the following fields:

Object	Description
• Reboot:	Reboot this router.
• Save Settings to Local Hard Drive:	Backup the current configuration of the router, and then save the backup file to a local storage device.
• Load Settings from Local Hard Drive:	You can import backup file from a local storage device, and click Load that the router can be restored to the status of the backup.
• Restore to Factory Default Settings:	Restore this router to default settings.



After loading the configuration file, the installed configuration will be erased. Therefore, it is recommended to back up the current settings before loading new configuration file.



DO NOT shut down your router when setting this page. Otherwise, the router may be damaged.

5.8.3 Time Setup

On this page, you can set the time of the router.

Time Setup

Local Time: 1970-1-1 0:18:25

Set The System Time:

- ☒ Enable NTP
- ☐ Your Computer
- ☐ Manual Setting

Time Zone: (GMT+08:00) Beijing, Chongqing, Urumqi, Hong Kong, Perth, Singapore, Taipei ▼

Daylight Saving: ☐ Enable ☒ Disable

Default NTP Server: 0.pool.ntp.org (Optional)

Set the Time:
 Year: 2013 ▼ Month: 12 ▼ Day: 2 ▼
 Hour: 10 ▼ Minute: 38 ▼ Second: 37 ▼

Apply Cancel Help

Figure 5-8-3

The page includes the following fields:

Object	Description
• Set The System Time:	Enable NTP: The time of this router will synchronize with server.
	Your Computer: The time of this router will synchronize with your computer.
	Manual Setting: You can set the time of this router manually.
• Time Zone:	Select your current time zone.
• Daylight Saving:	Enable or Disable Daylight Saving.
• Default NTP Server:	Select your current time zone.
• Set the Time:	If you select Manual Setting , you can set the time manually here.

5.8.4 Misc Setup

Misc Setup

Block WAN Ping ☐ Enable ☒ Disable

UPnP Settings ☒ Enable ☐ Disable

VPN Pass-Through

PPTP ☒ Enable ☐ Disable

L2TP ☒ Enable ☐ Disable

IPSec ☒ Enable ☐ Disable

Apply Cancel Help

Figure 5-8-4

The page includes the following fields:

Object	Description
• Block WAN Ping:	Select to receive or block the Ping packet from WAN side.
• UPnP Settings:	To enable or disable UPnP (Universal Plug and Play). UPnP enables the host of the LAN side to request port translation which enables external hosts of the WAN side to access the host of the LAN side.
• VPN Pass-through	PPTP: To enable or disable the PPTP data pass-through.
	L2TP: To enable or disable the L2TP data pass-through.
	IPSec: To enable or disable the IP Sec data pass-through.

5.8.5 System Log

You can view and configure the system log on this page.

System Log

View Log displays the activities. Click on Log Settings for advance features

page 1 of 4

Time	Message
Jan/1/1970 00:01:21	[DHCPD] Receive 192.168.1.2 inform
Jan/1/1970 00:01:21	[DHCPD] unicasting packet to client ciaddr
Jan/1/1970 00:00:19	[DHCPD] Receive 192.168.1.2 inform
Jan/1/1970 00:00:19	[DHCPD] unicasting packet to client ciaddr

Figure 5-8-5

Press **Log Setting** to go to the Log Setting page.

Log Settings

Remote Syslog Server

Remote Syslog Server / IP Address ☐ Enable ☒ Disable

E-Mail Notification

SMTP Server / IP Address

E-mail Address

Save Logs To Local Hard Drive

Log Type

☒ System Activity

☐ Debug Information

☒ Attacks

☐ Dropped Packets

☐ Notice

Figure 5-8-6

The page includes the following fields:

Object	Description
Remote Syslog Server / IP Address:	Select Enable Remote Syslog Server , the system log will be sent to the syslog server automatically. You need to enter the IP Address

	of the remote server.
• SMTP Server / IP Address:	Send email with system log to the specified mail-box. You need to enter the IP address of SMTP server address. If it is left blank, this function will be disabled.
• Email Address:	Enter the email to receive system log.
• Save Logs to Local Hard Drive:	Click Save to save the system log to the local hard drive.
• Log Type:	Select which type of logs to be sent.

5.8.6 Firmware Upgrade

On this page, you can upgrade the router.

Firmware Upgrade

Attention!!!!During firmware updates, the power cannot be turned off. The system will restart automatically after completing the upgrade

Current Firmware Version: 2.4.3.0
 Firmware Date:2013 year11 month30 day Saturday

Restore To Factory Default Settings ☐ Enable ☒ Disable

Figure 5-8-7

You can select the firmware file from the local storage device for upgrade.



Before upgrading the firmware, it is recommended to back up the current settings. **DO NOT** turn off your AP or press the Reset button while an operation on this page is in progress.

5.8.7 HELP

You can get some information of the router from this page.

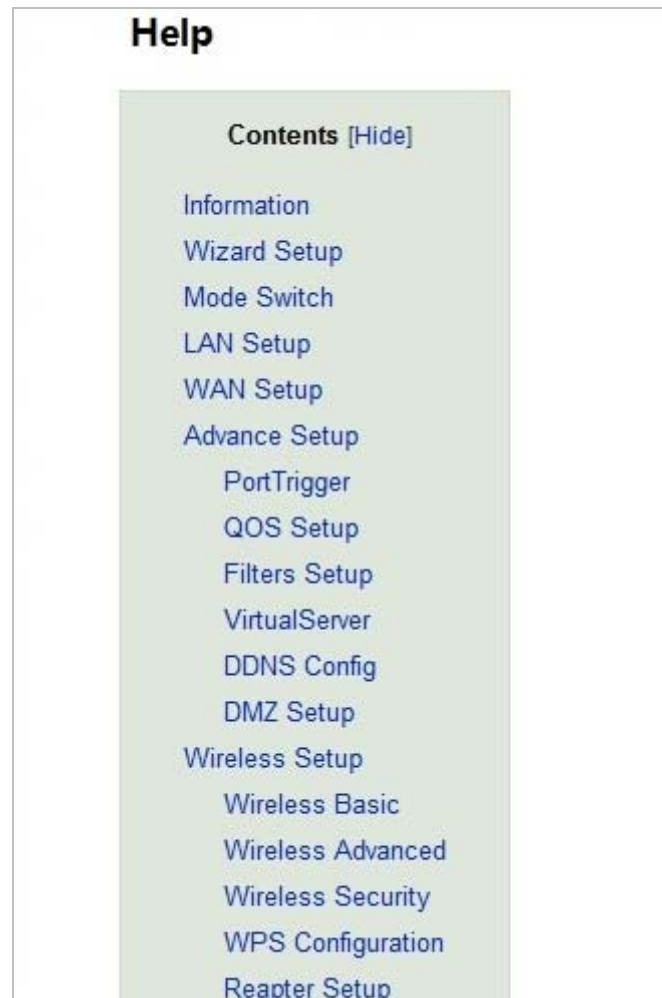


Figure 5-8-8

Chapter 6. Quick Connection to a Wireless Network

6.1 Windows XP (Wireless Zero Configuration)

Step 1: Right-click on the **wireless network icon** displayed in the system tray

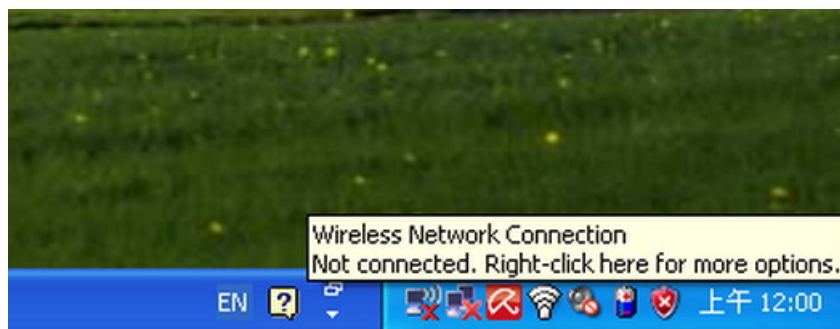


Figure 6-1

Step 2: Select [View Available Wireless Networks]

Step 3: Highlight and select the wireless network (SSID) to connect

- (1) Select SSID (Here is taking PLANET for example)
- (2) Click the [Connect] button

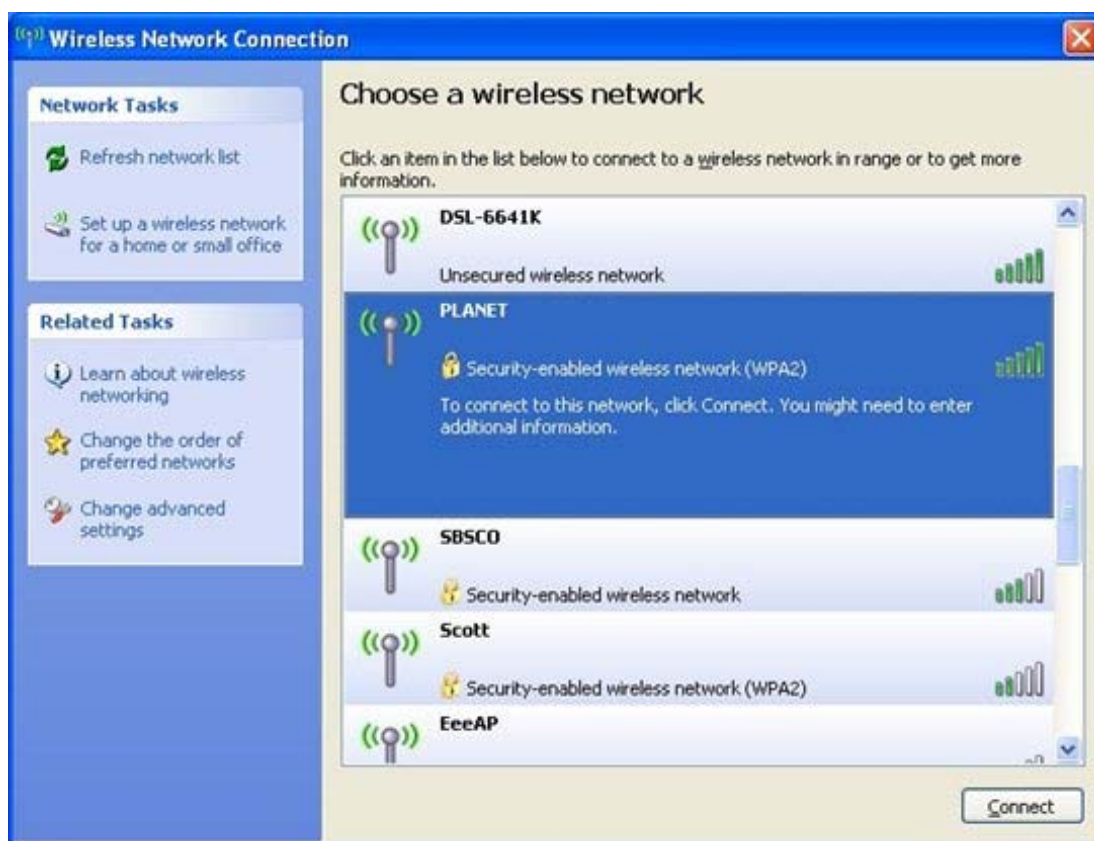


Figure 6-2

Step 4: Enter the encryption key of the Wireless Router

- (1) The Wireless Network Connection box will appear
- (2) Enter the encryption key that configured in [section 5.7.3](#)
- (3) Click the [Connect] button

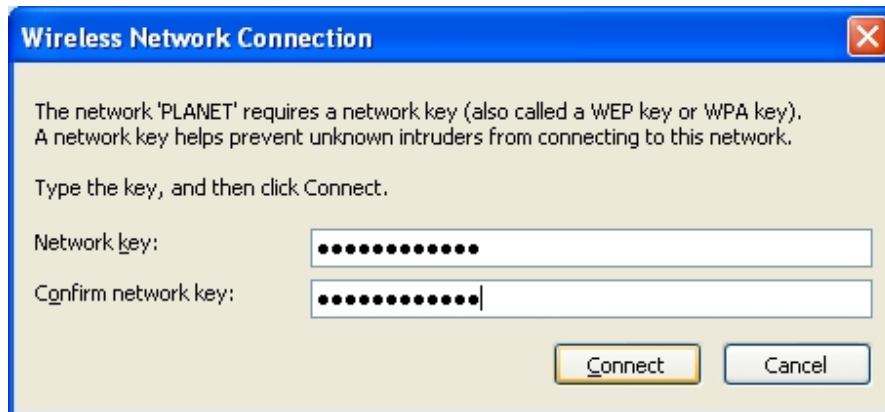


Figure 6-3

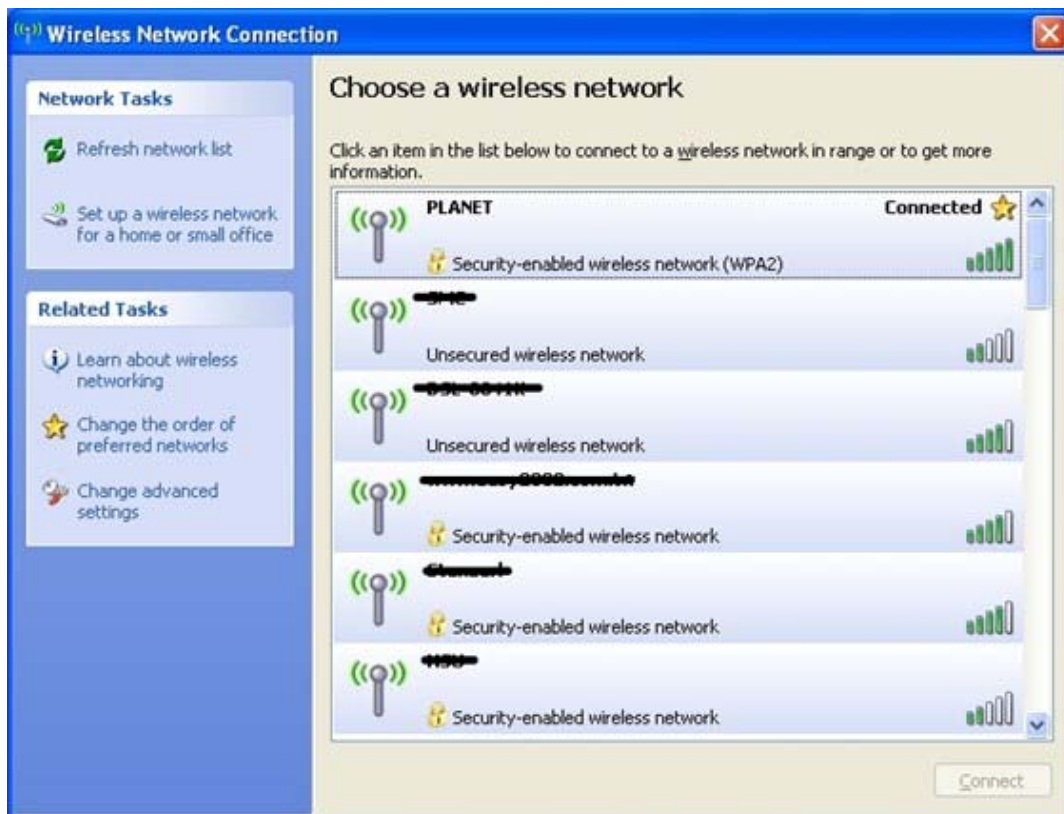
Step 5: Check if “Connected” is displayed

Figure 6-4



Note

Some laptops are equipped with a “Wireless ON/OFF” switch for the internal wireless LAN. Make sure the hardware wireless switch is switch to “ON” position.

6.2 Windows 7 (WLAN AutoConfig)

WLAN AutoConfig service is built-in in Windows 7 that can be used to detect and connect to wireless network. This built-in wireless network connection tool is similar to wireless zero configuration tool in Windows XP.

Step 1: Right-click on the **network icon** displayed in the system tray



Figure 6-5

Step 2: Highlight and select the wireless network (SSID) to connect

- (1) Select SSID (Here is taking default_2.4G for example)
- (2) Click the [**Connect**] button



Figure 6-6



Note

If you will be connecting to this Wireless Router in the future, check [**Connect automatically**].

Step 4: Enter the **encryption key** of the Wireless Router

- (1) **Connect to a Network** box will appear

- (2) Enter the encryption key that is configured in [section 5.7.3](#)
- (3) Click the [OK] button



Figure 6-7

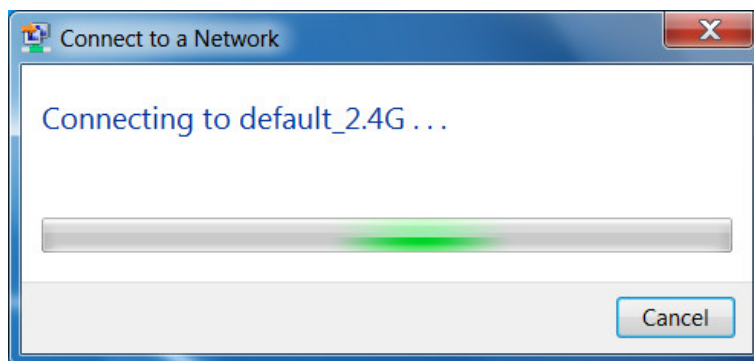


Figure 6-8

Step 5: Check if “**Connected**” is displayed



Figure 6-9

6.3 Mac OS X 10.x

Step 1: Right-click on the **network icon** displayed in the system tray

The AirPort Network Connection menu will appear

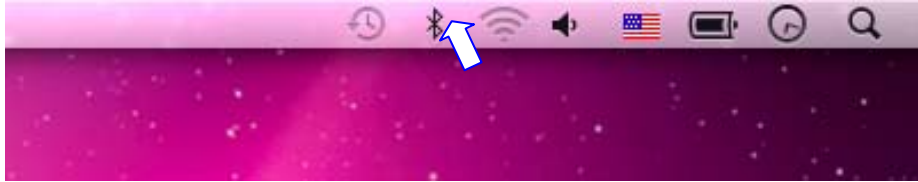


Figure 6-10

Step 2: Highlight and select the wireless network (SSID) to connect

- (1) Select and SSID (Here is taking PLANET for example)
- (2) Double-click on the selected SSID

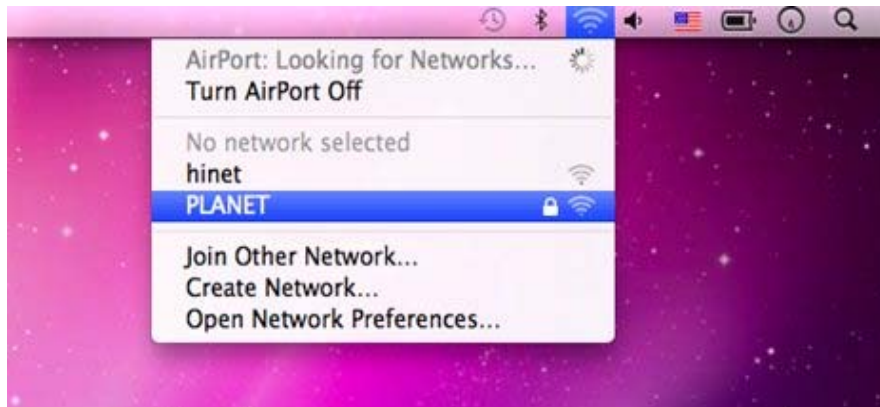


Figure 6-11

Step 4: Enter the **encryption key** of the Wireless Router

- (1) Enter the encryption key that is configured in [section 5.7.3](#)
- (2) Click the [OK] button



Figure 6-12



If you will connect this Wireless Router in the future, check [**Remember this network**].

Step 5: Check if the AirPort is connected to the selected wireless network.

If “Yes”, then there will be a “check” symbol in the front of the SSID.



Figure 6-13

6.4 iPhone / iPod Touch / iPad

Step 1: Tap the [Settings] icon displayed in the home screen

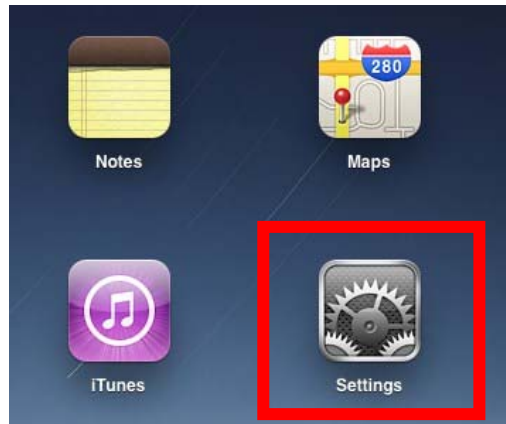


Figure 6-14

Step 2: Check Wi-Fi setting and select the available wireless network

(1) Tap [General] \ [Network]

(2) Tap [Wi-Fi]

If this is the first time to connect to the Wireless Router, it should show “Not Connected”.



Figure 6-15

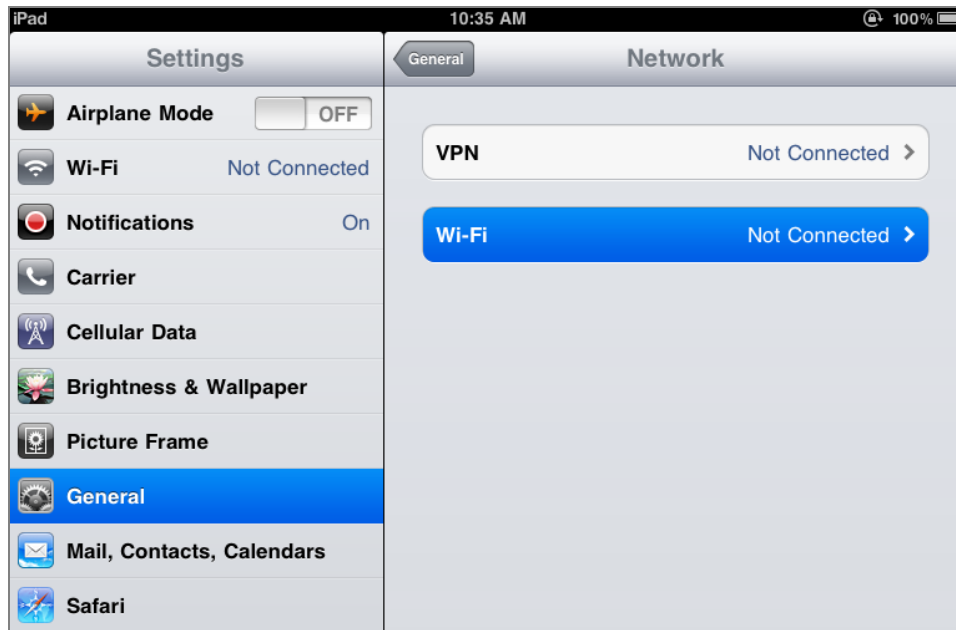


Figure 6-16

Step 3: Tap the target wireless network (SSID) in “Choose a Network...”

- (1) Turn on Wi-Fi by tapping “Wi-Fi”
- (2) Select SSID (Here is taking PLANET for example)



Figure 6-17

Step 4: Enter the **encryption key** of the Wireless Router

- (1) The password input screen will be displayed
- (2) Enter the encryption key that configured in [section 5.7.3](#)
- (3) Tap the [Join] button

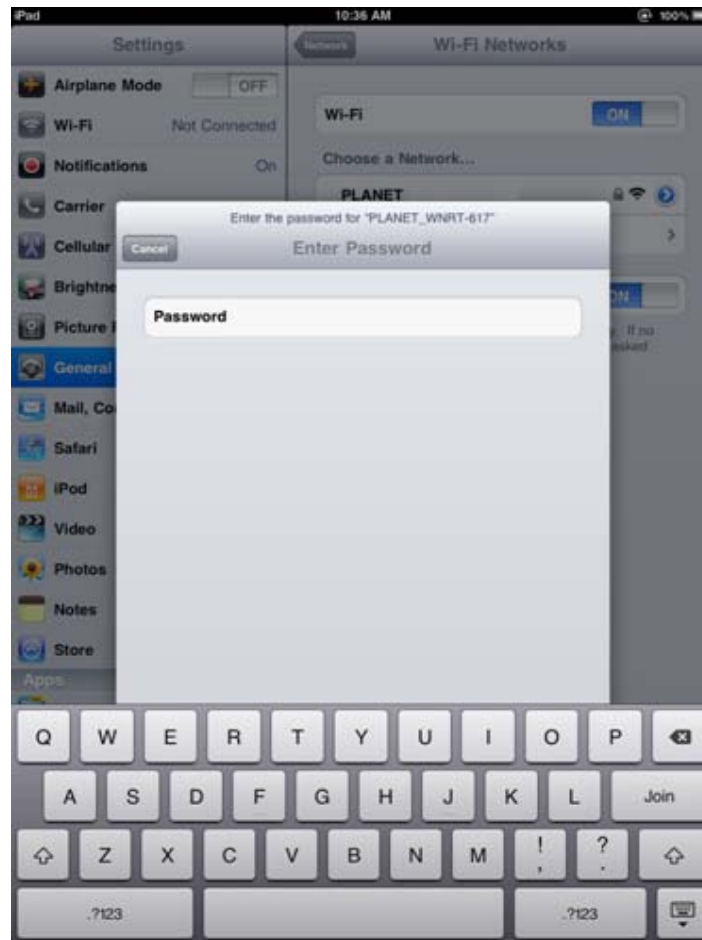


Figure 6-18

Step 5: Check if the iDevice is connected to the selected wireless network.

If “Yes”, then there will be a “check” symbol in the front of the SSID.



Figure 6-19

Appendix A: Troubleshooting

If you found the router is working improperly or stop responding to you, please read this troubleshooting first before contacting the dealer for help,. Some problems can be solved by yourself within a very short time.

Scenario	Solution
The router is not responding to me when I want to access it by web browser.	- Please check the connection of the power cord and the Ethernet cable of this router. All cords and cables should be correctly and firmly inserted to the router. - If all LEDs on this router are off, please check the status of power adapter, and make sure it is correctly powered. - You must use the same IP address section as the router uses. - Are you using MAC or IP address filter? Try to connect the router by another computer and see if it works; if not, please reset the router to the factory default settings (pressing 'reset' button for over 10 seconds). - Set your computer to obtain an IP address automatically (DHCP), and see if your computer can get an IP address. - If you did a firmware upgrade and this happens, contact your dealer of purchase for help. - If all the solutions above don't work, contact the dealer for help.
I can't get connected to the Internet.	- Go to 'Status' -> 'Internet Connection' menu, and check Internet connection status. - Please be patient, sometimes Internet is just that slow. - If you connect a computer to Internet directly before, try to do that again, and check if you can get connected to Internet with your computer directly attached to the device provided by your Internet service provider. - Check PPPoE / L2TP / PPTP user ID and password again. - Call your Internet service provide and check if there's something wrong with their service. - If you just can't connect to one or more website, but you can still use other internet services, please check URL/Keyword filter. - Try to reset the router and try again later. - Reset the device provided by your Internet service provider too. - Try to use IP address instead of host name. If you can use IP address to communicate with a remote server, but can't use host name, please check DNS setting.

I can't locate my router by my wireless device.	a. 'Broadcast ESSID' set to off? b. All two antennas are properly secured. c. Are you too far from your router? Try to get closer. d. Please remember that you have to input ESSID on your wireless client manually, if ESSID broadcast is disabled.
File download is very slow or breaks frequently.	a. Are you using QoS function? Try to disable it and try again. b. Internet is slow sometimes, so be patient. c. Try to reset the router and see if it's better after that. d. Try to know what computers do on your local network. If someone's transferring big files, other people will think Internet is really slow. e. If this never happens before, call you Internet service provider to know if there is something wrong with their network.
I can't log into the web management interface; the password is wrong.	a. Make sure you're connecting to the correct IP address of the router! b. Password is case-sensitive. Make sure the 'Caps Lock' light is not illuminated. c. If you really forget the password, do a hard reset.
The router becomes hot	a. This is not a malfunction, if you can keep your hand on the router's case. b. If you smell something wrong or see the smoke coming out from router or A/C power adapter, please disconnect the router and A/C power adapter from utility power (make sure it's safe before you're doing this!), and call your dealer of purchase for help.

Appendix B: Configuring the PC in Windows 7

In this section, we'll introduce how to configure the TCP/IP correctly in Windows 7. First make sure your Network Adapter is working, refer to the adapter's manual if needed.

- 6) On the Windows taskbar, click the **Start** button, and then click **Control Panel**.
- 7) Click the **Network and Sharing Center** icon, and then click the **Change adapter settings** on the left side of the screen.

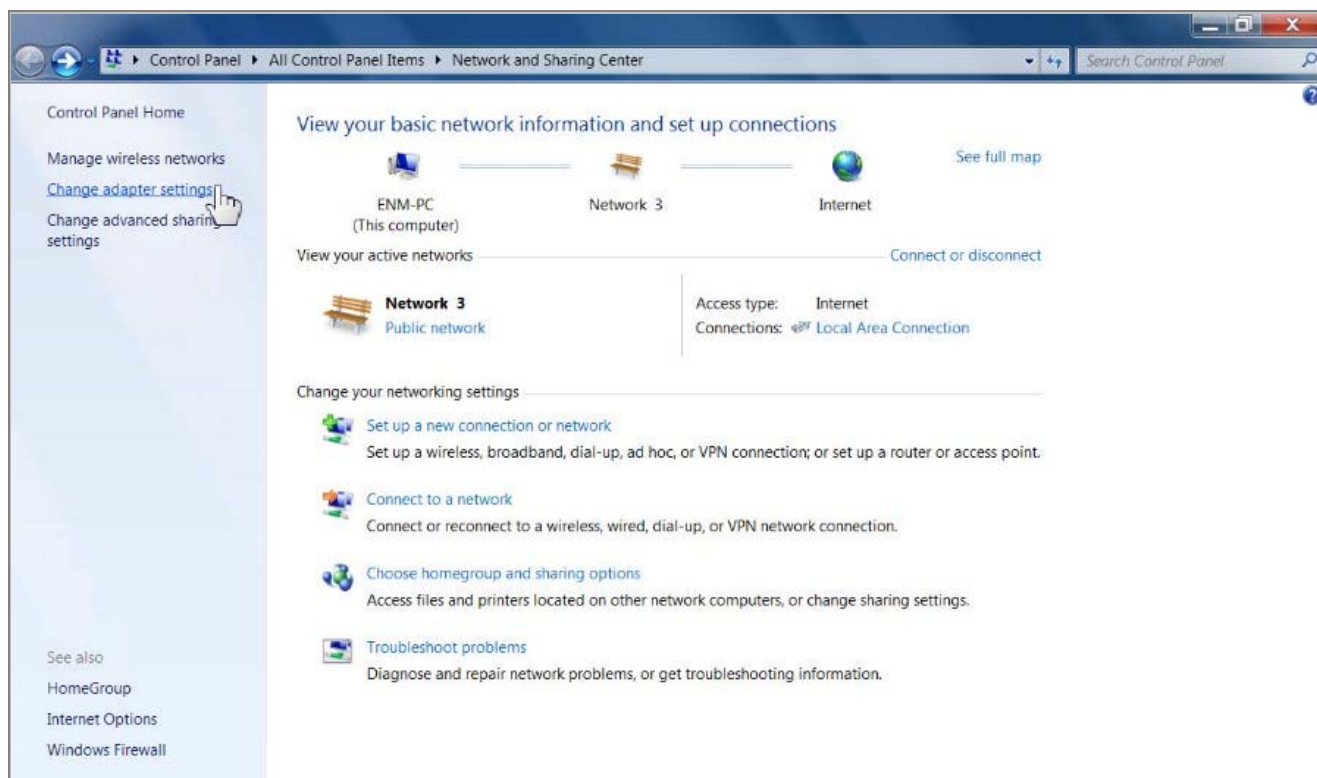


Figure B-1

- 8) Right-click the icon of the network adapter shown in the figure below, and select Properties on the prompt window.

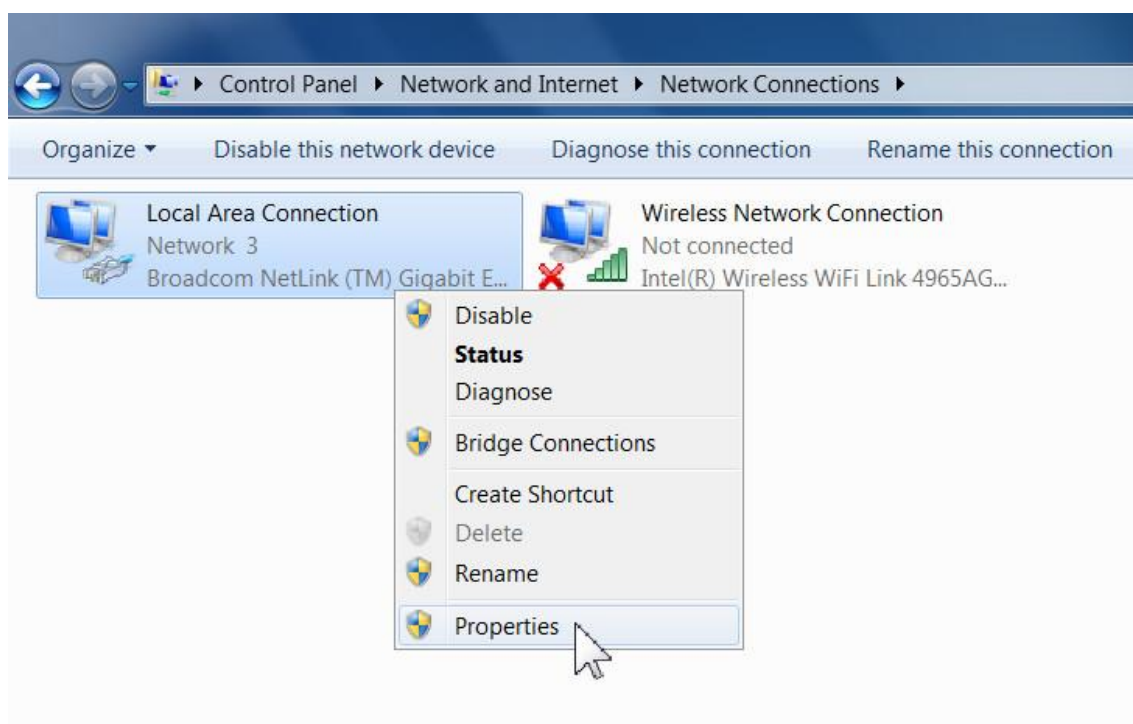


Figure B-1

- 9) On the prompt page shown below, double-click on the **Internet Protocol Version 4 (TCP/IPv4)**.

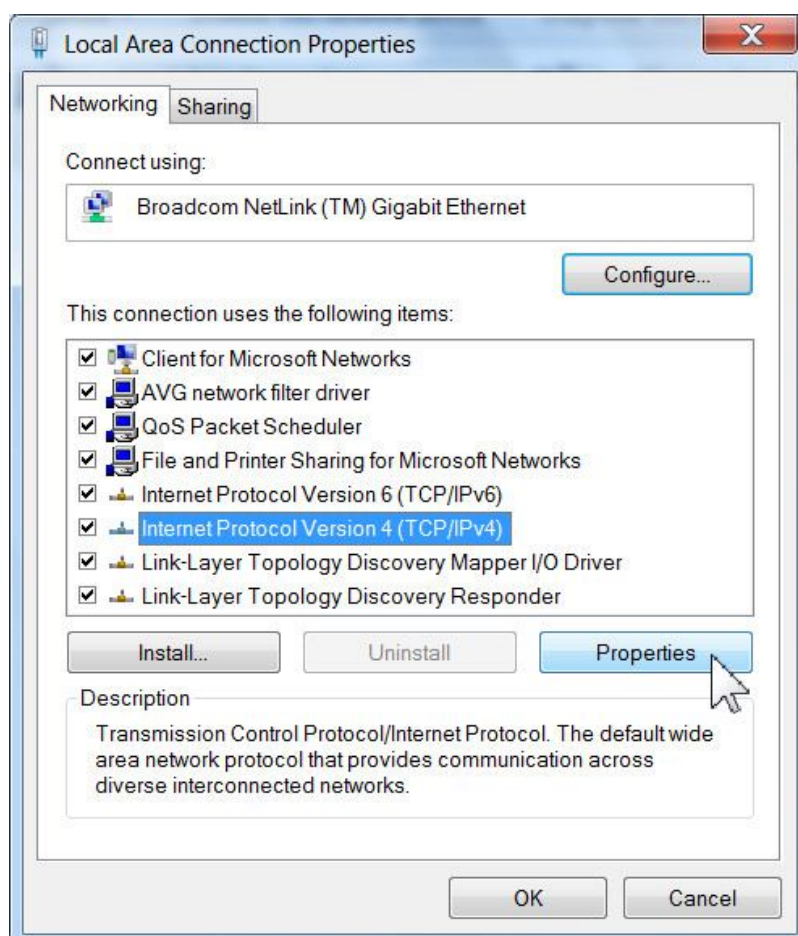


Figure B-3

- 10) The following **TCP/IP Properties** window will display and the **IP Address** tab is open on this window by default.

Now you have two ways to configure the **TCP/IP** protocol below:

➤ **Setting IP address automatically**

Select **Obtain an IP address automatically** and choose **Obtain DNS server address automatically** as shown in the figure below:

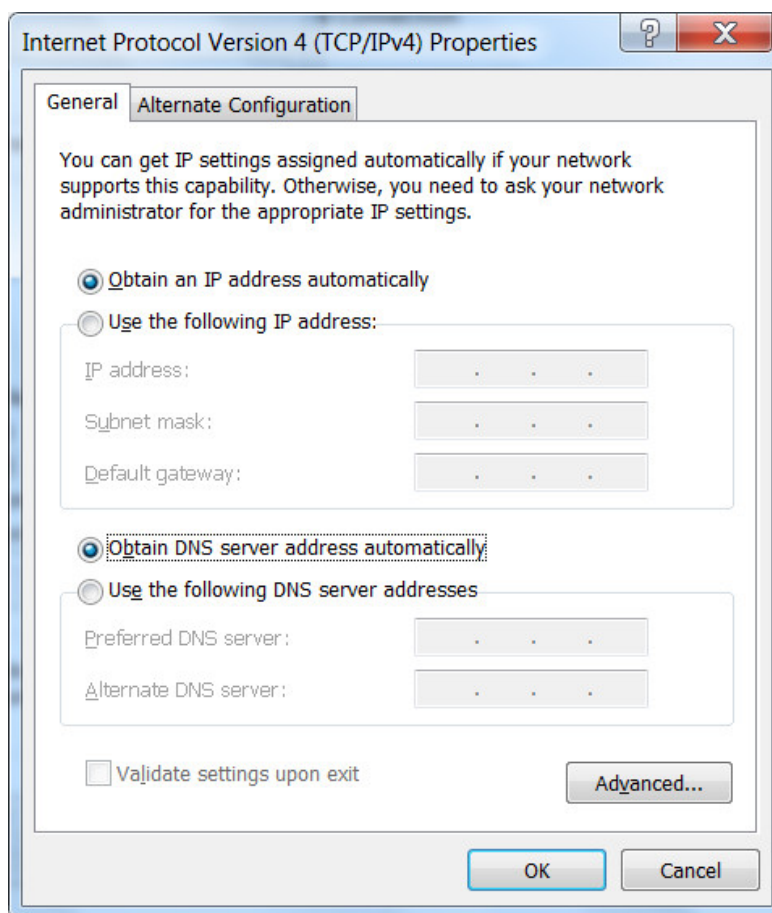


Figure B-4

➤ **Setting IP address manually**

- 1 Select **Use the following IP address** radio button.
- 2 If the Router's LAN IP address is 192.168.1.1, type in IP address 192.168.1.x (x is from 2 to 254), and **Subnet mask** 255.255.255.0.
- 3 Type the Router's LAN IP address (the default IP is 192.168.1.1) into the **Default gateway** field.
- 4 Select **Use the following DNS server addresses** radio button. In the **Preferred DNS Server** field you can

type the DNS server IP address which has been provided by your ISP

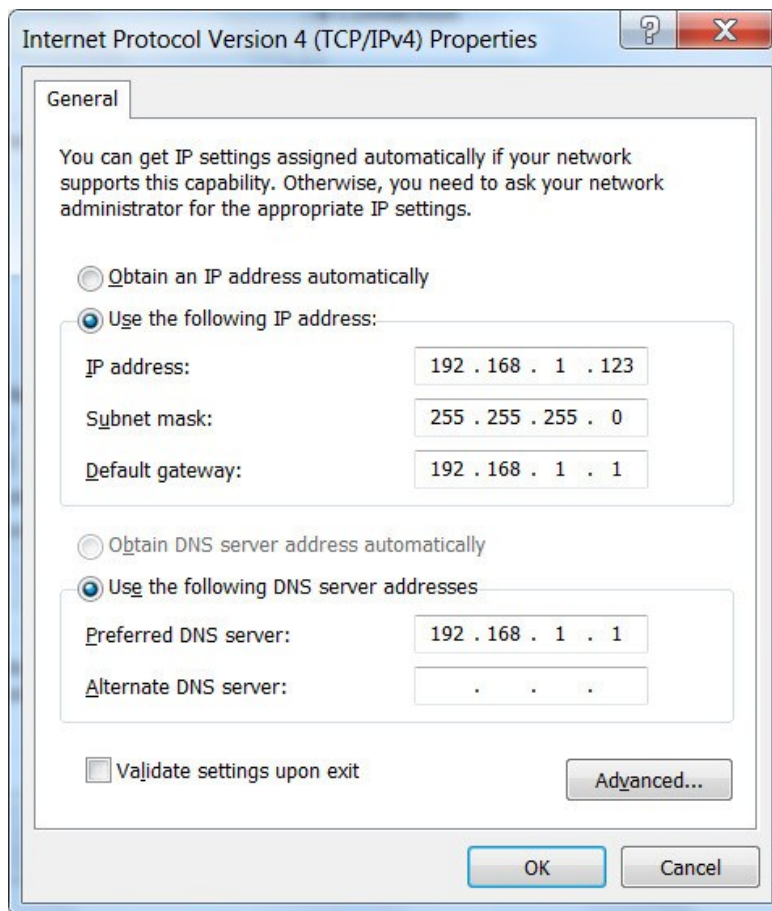


Figure B-5

Now click **OK** to keep your settings.

Appendix C: Specifications

Product	WDRT-750AC 750Mbps 802.11ac Wireless Broadband Router	
Hardware Specification		
Interface	WAN Port:	1 x 10/100 Mbps Auto MDI/MDI-X RJ45 port
	LAN Port:	4 x 10/100 Mbps Auto MDI/MDI-X RJ45 ports (LAN1~4)
Antenna	Gain:	2.4GHz : 2 x 2.5dBi PCB Antenna 5GHz: 1 x 3.8dBi Internal Antenna
	Reset / WPS button at rear panel Press for about 10 seconds to reset the device to factory default. Press for 1 second to activate WPS function.	
LED Indicators	PWR x 1 WLAN (2.4G & 5G) x 2 WAN x 1	
Material	Plastic	
Dimensions (W x D x H)	163 x 100 x 43 mm (W x D x H)	
Weight	146g	
Power Requirement	12V DC, 0.5A	
Power Consumption	Maximum of 4 watts	
Wireless interface Specifications		
Standard	Compliance with IEEE 802.11a/b/g/n/ac	
Frequency Band	Simultaneous 2.4 GHz and 5 GHz 2.4G: 2.412-2.484GHz 5G: 5.180-5.240GHz, 5260-5320GHz, 5.745-5.825GHz	
	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM) MIMO	
	11n: (20MHz): MCS0-7, 32 with Half Guard Interval Support (up to 72Mbps); (40MHz): MCS0-7, 32 with Half Guard Interval Support (up to 150Mbps) 11g: 6/9/12/24/36/48/54Mbps 11b: 1/2/5.5/11Mbps 11a: 6/9/12/24/36/48/54Mbps 11ac: (20MHz):up to 86.7Mbps (40MHz):up to 200Mbps (80MHz):up to 433Mbps	
Channel	2.4GHz America / FCC: 2.412~2.462GHz (11 Channels) Europe / ETSI: 2.412~2.472GHz (13 Channels) Japan / TELEC: 2.412~2.484GHz (14 Channels)	

	5GHz 5.180-5.240GHz, 5260-5320GHz, 5.745-5.825GHz (13 Channels) <u>America / FCC</u> 802.11a/n/ac: 5.180~5.220GHz; 5.745~5.785GHz (36, 40,44,48, 52, 56, 60, 64, 149,153, 157, 161, 165) <u>Europe / ETSI</u> 802.11a/n/ac: 5.180~5.220GHz (36,40,44, 48, 52, 56, 60, 64)
Channel Width	20/ 40/80 MHz
RF Power / EIRP	2.4GHz: 11b: 17±1dBm 11g: 14±1.5dBm 11n: 14±1.5dBm 5GHz: 11a: 14±1.5dBm 11n: 14±1.5dBm 11ac: 13±1.5dBm
Receive Sensitivity	2.4GHz 11b (11Mbps): -79dBm 11g (54Mbps): -72dBm 11n (20M)mode: -69dBm 11n (40M)mode: -65dBm 5GHz 11a: -72dBm 11n (20M)mode: -69dBm 11n (40M)mode: -65dBm 11ac (20M)mode: -57dBm 11ac(40M)mode: -54dBm 11ac(80M)mode: -51dBm
Wireless Management Features	
Wireless Modes	■ Gateway ■ Repeater
Encryption Security	WEP (64/128-bit) WPA / WPA2 WPA-PSK/ WPA2-PSK encryption
Wireless Security	Provide Wireless LAN ACL (Access Control List) filtering
	Wireless MAC address filtering
	Supports WPS (WIFI Protected Setup)
Wireless Advanced	Supports Dual-SSID (2.4G & 5G)
Max. Supported Clients	Wire: 254 Wireless: 32
Router Features	

Internet Connection Type	Shares data and Internet access for users, supporting the following Internet accesses: ■ DHCP ■ Static IP ■ PPPoE ■ PPTP ■ L2TP
Firewall	NAT firewall Built-in NAT server which supports Virtual Server, and DMZ Built-in firewall with IP address filtering, Port filtering, URL filtering, and MAC address filtering
LAN	Built-in DHCP server supporting static IP address distributing Supports UPnP, Dynamic DNS Supports Packets Statistics IP-based Bandwidth Control Session Number: Max. 1500
System Management	Web-based (HTTP) management interface Remote management (WAN Access Control) SNTP time synchronize System Log
IEEE Standards	IEEE 802.11ac IEEE 802.11n IEEE 802.11a IEEE 802.11g IEEE 802.11b IEEE 802.11i IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3ab 1000Base-T
Other Protocols and Standards	CSMA/CA, CSMA/CD, TCP/IP, DHCP, ICMP, NAT, PPPoE, SNTP
OS Compatibility	Windows 7 Windows Vista Windows XP Mac OS X 10.4 and higher
Standards Conformance	
Temperature	Operating: 0 ~ 40 degrees C Storage: -40 ~ 70 degrees C
Humidity	Operating: 10 ~ 90% (non-nondensing) Storage: 5 ~ 90% (Non-Condensing)
Regulatory	CE, RoHS, WEEE

Appendix D: Glossary

- **802.11n** - 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The Enhanced Wireless Consortium (EWC) [3] was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for interoperability of next-generation wireless local area networking (WLAN) products.
- **802.11b** - The 802.11b standard specifies a wireless networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.
- **802.11g** - specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security.
- **DDNS (Dynamic Domain Name System)** - The capability of assigning a fixed host and domain name to a dynamic Internet IP Address.
- **DHCP (Dynamic Host Configuration Protocol)** - A protocol that automatically configure the TCP/IP parameters for the all the PC(s) that are connected to a DHCP server.
- **DMZ (Demilitarized Zone)** - A Demilitarized Zone allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or videoconferencing.
- **DNS (Domain Name System)** - An Internet Service that translates the names of websites into IP addresses.
- **Domain Name** - A descriptive name for an address or group of addresses on the Internet.
- **DSL (Digital Subscriber Line)** - A technology that allows data to be sent or received over existing traditional phone lines.
- **ISP (Internet Service Provider)** - A company that provides access to the Internet.
- **MTU (Maximum Transmission Unit)** - The size in bytes of the largest packet that can be transmitted.
- **NAT (Network Address Translation)** - NAT technology translates IP addresses of a local area network to a different IP address for the Internet.
- **PPPoE (Point to Point Protocol over Ethernet)** - PPPoE is a protocol for connecting remote hosts to the Internet over an always-on connection by simulating a dial-up connection.

- **SSID** - A **S**ervice **S**et **I**dentification is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name.
- **WEP (Wired Equivalent Privacy)** - A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard.
- **Wi-Fi** - A trade name for the 802.11b wireless networking standard, given by the Wireless Ethernet Compatibility Alliance (WECA, see <http://www.wi-fi.net>), an industry standards group promoting interoperability among 802.11b devices.
- **WLAN (Wireless Local Area Network)** - A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.

EC Declaration of Conformity

English	Hereby, PLANET Technology Corporation , declares that this 802.11ac Wireless Broadband Router is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.	Lietuviškai	Šiuo PLANET Technology Corporation ,, skelbia, kad 802.11ac Wireless Broadband Router tenkina visus svarbiausius 1999/5/EC direktyvos reikalavimus ir kitas svarbias nuostatas.
Česky	Společnost PLANET Technology Corporation , tímto prohlašuje, že tato 802.11ac Wireless Broadband Router splňuje základní požadavky a další příslušná ustanovení směrnice 1999/5/EC.	Magyar	A gyártó PLANET Technology Corporation , kijelenti, hogy ez a 802.11ac Wireless Broadband Router megfelel az 1999/5/EK irányelv alapkövetelményeinek és a kapcsolódó rendelkezéseknek.
Dansk	PLANET Technology Corporation , erklærer herved, at følgende udstyr 802.11ac Wireless Broadband Router overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF	Malti	Hawnhekk, PLANET Technology Corporation , jiddikjara li dan 802.11ac Wireless Broadband Router jikkonforma mal-ġtigijiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Dirrettiva 1999/5/EC
Deutsch	Hiermit erklärt PLANET Technology Corporation , dass sich dieses Gerät 802.11ac Wireless Broadband Router in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet". (BMW)	Nederlands	Hierbij verklaart, PLANET Technology Corporation , dat 802.11ac Wireless Broadband Router in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG
Eestikeeles	Käesolevaga kinnitab PLANET Technology Corporation , et see 802.11ac Wireless Broadband Router vastab Euroopa Nõukogu direktiivi 1999/5/EC põhinõuetele ja muudele olulistele tingimustele.	Polski	Niniejszym firma PLANET Technology Corporation , oświadcza, że 802.11ac Wireless Broadband Router spełnia wszystkie istotne wymagania i klauzule zawarte w dokumencie „Directive 1999/5/EC”.
Ελληνικά	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ, PLANET Technology Corporation , ΔΗΛΩΝΕΙ ΟΤΙ ΑΥΤΟ 802.11ac Wireless Broadband Router ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ	Português	PLANET Technology Corporation , declara que este 802.11ac Wireless Broadband Router está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Español	Por medio de la presente, PLANET Technology Corporation , declara que 802.11ac Wireless Broadband Router cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE	Slovensky	Výrobca PLANET Technology Corporation , týmto deklaruje, že táto 802.11ac Wireless Broadband Router je v súlade so základnými požiadavkami a ďalšími relevantnými predpismi smernice 1999/5/EC.
Français	Par la présente, PLANET Technology Corporation , déclare que les appareils du 802.11ac Wireless Broadband Router sont conformes aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE	Slovensko	PLANET Technology Corporation , s tem potrjuje, da je ta 802.11ac Wireless Broadband Router skladen/a z osnovnimi zahtevami in ustreznimi določili Direktive 1999/5/EC.
Italiano	Con la presente, PLANET Technology Corporation , dichiara che questo 802.11ac Wireless Broadband Router conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.	Suomi	PLANET Technology Corporation , vakuuttaa täten että 802.11ac Wireless Broadband Router tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Latviski	Ar šo PLANET Technology Corporation , apliecina, ka šī 802.11ac Wireless Broadband Router atbilst Direktīvas 1999/5/EK pamatprasībām un citiem atbilstošiem noteikumiem.	Svenska	Härmed intygar, PLANET Technology Corporation , att denna 802.11ac Wireless Broadband Router står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.